

ENGINEERING REFERENCE DATA

**BELL SYSTEM
INDUCTORS**

*BELL TELEPHONE LABORATORIES
INCORPORATED*

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1. INTRODUCTION

This is one of a series of Engineering Reference Data Bulletins containing information on inductors designed by the Bell Telephone Laboratories, Incorporated, for other than Military Applications, and manufactured by the Western Electric Company. It is intended for use primarily by Engineers of the Laboratories, and contains information on inductors of all ratings and classifications except that rated A&M Only, ML or Manufactured Discontinued. Apparatus codes rated AT&T Co Standard, Component Part and Non-Associate are included.

Information given herein is intended to aid in development work. For any specific circuit arrangement, however, consideration should be given to the possible existence of newer designs which may be smaller or less expensive, or may have more desirable characteristics. Also certain codes or series, still in good standing, are omitted due to the lack of general application or because of replacement by an improved design.

To obtain the latest information or more complete characteristics for any application, consult the Inductor Development Group, Merrimack Valley Laboratory.

It is planned to bring this bulletin up to date periodically. However, the information contained herein may not be complete and ratings of the items are not shown. Therefore, the final selection of apparatus should be made on the basis of the usual sources of information such as the Western Electric Apparatus Card Catalog, the manufacturing specifications, and price data. For information regarding the output of apparatus, refer to the Western Electric Report A-822.1.

The bulletin includes some codes of apparatus for which catalog cards will not be found in the Western Electric Apparatus Card Catalog. Such codes are in general rated "Component Part". This rating is applied to apparatus where it is believed that the associated companies will have not need for apparatus card catalog information and orders for the apparatus from the field are not expected.

When apparatus which is not listed on a white card in the Western Electric Apparatus Card Catalog is selected for use in new applications, the Standards Engineer, Department 6261, Bell Telephone Laboratories, Incorporated, 463 West Street, N.Y. 14, N.Y. should be notified of the new use and probable demand so that consideration can be given to rerating the apparatus. When such new applications are made within the Laboratories, the selection should first be discussed with the department responsible for the design of the apparatus.

2. GENERAL

This book is divided into sections as follows: air, permalloy powder, laminated and ferrite core inductors.

Air Core Inductors

These inductors are grouped by types with similar construction but with different dimensions. Another basis divides fixed inductance from adjustable inductance coils. The fixed inductors usually are set to a required inductance, between maximum and minimum limits, during manufacture. The adjustable coils may be continuously variable over a wider or narrower range of inductance by means of a screwdriver adjustment which commonly introduces certain amounts of magnetic material into the field of the winding. Other inductors may be adjusted to an extent that is practically limited to removal of turns from the winding for circuit-board trials.

Permalloy Powder Core Inductors

These inductors are grouped by permeability and size of the core. For most types Q, Modulation and Superposed Direct Current characteristic curves are also shown.

Laminated Inductors

This section consists of shell, toroidal or core type inductors and is arranged numerically by code numbers.

Ferrite Inductors

This section consists of toroidal, core, cup or rod type inductors and is arranged numerically by code numbers. The 1509 and 1541 types are listed in descending order of inductance.

3. ABBREVIATIONS

The following abbreviations are used on the data tables in addition to standard abbreviations.

- B - Bank winding
- D - Duolateral winding
- LW - Layer winding
- ML - Multi-layer winding
- PD - Progressive duolateral winding
- SL - Single layer winding
- SA - Series aiding connection
- PA - Parallel aiding connection
- SO - Series opposing connection
- PO - Parallel opposing connection
- SS - Silicon Steel core
- Mn Zn - Manganese Zinc core
- 45 Perm - 45 Permalloy core
- MO Perm - Molybdenum Permalloy core

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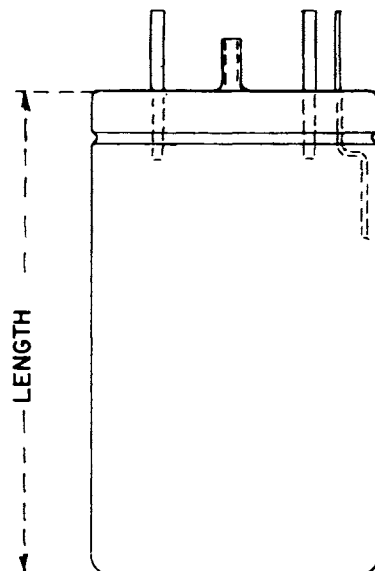
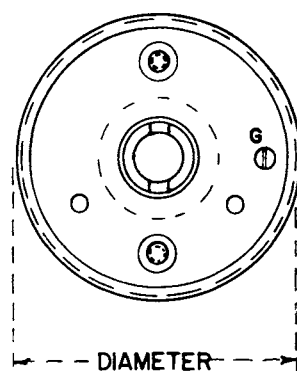
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AIR CORE INDUCTORS												
Code	Total DCR		Total Inductance		Freq Kc	Effective Resistance		Dimensions - Inches	Windings	Remarks		
	Ohms		Millihenries			Ohms Max	Freq Kc					
	Min	Max	Min	Max								
CD1	--	460	57.9	58.9	1.8	--	--	15/16 diam x 2-9/16 long	(I-0)			
2	--	405	46.3	47.3	1.8	--	--	7/8 diam x 2-9/16 long	(I-0)			
3	--	240	27.3	27.9	1.8	--	--	13/16 diam x 2-9/16 long	(I-0)			
4	--	270	28.8	29.4	1.8	--	--	13/16 diam x 2-9/16 long	(I-0)			
5	--	220	22.9	23.5	1.8	--	--	13/16 diam x 2-9/16 long	(I-0)			
6	--	115	13.4	13.7	1.8	--	--	13/16 diam x 2-9/16 long	(I-0)			
7	--	510	69.9	71.3	1.8	--	--	15/16 diam x 2-9/16 long	(I-0)			
8	80	120	2.3	2.7	1.8	--	--	1/2 diam x 1-1/2 long	(I-0)			
9	80	120	2.3	2.7	1.8	--	--	1/2 diam x 1-1/2 long	(I-0)			
CT1	18.8	22.8	.0935	.0953	50	--	--	11/16 diam x 1-3/8 long	(1-3)			
3	84.8	86.4	.0383	.039	100	1.8	100	7/8 diam x 1-3/8 long	(1-3)			
4	44.4	45.4	.0791	.0799	100	2.6	100	7/8 diam x 1-3/8 long	(1-3)			
5	603.8	616.0	.2159	.2193	100	4.8	100	7/8 diam x 1-3/8 long	(1-3)			
67A	6.21	7.59	3	--	.9	--	--	1-1/8 diam x 13/16 long	(1-2)			
H	6.0	6.6	2.346	2.254	10	8.2	10	1-1/8 diam x 13/16 long	(1-2)			
225A	--	1.3	--	--	--	--	--	7/8 diam x 5/8 long	(1-2)	Spark suppressor		
253A	--	.06	.114	.132	.9	--	--	2-1/8 x 2-1/8 x 1-5/8	(1-2)			
B	--	.06	.114	.132	.9	--	--	2-1/8 x 2-1/8 x 1-5/8	(1-2)			
C	--	.16	.38	.42	.9	--	--	2-1/8 x 2-1/8 x 1-5/8	(1-2)			
308A	--	--	.00748	.00778	100	--	--	4-3/8 x 4-11/16 x 5-3/4	--	Min Q 250 at 3.6 MC		
1515A	--	800	--	--	--	--	--	4-9/16 x 2-13/16 x 1-3/8	(1-2)	Translator coil for automatic message accounting center.		
1517A	--	--	.0124	.0126	100	--	--	7/32 diam x 5/8 long	--			
B	11.3	14.6	1.445	1.485	100	--	--	7/16 diam x 5/8 long	--			
C	8	11	1.015	1.075	100	--	--	7/16 diam x 5/8 long	--			

AIR CORE INDUCTORS

Each inductor consists of a winding on a phenolic core tube assembled in a cylindrical aluminum or copper can and arranged for single side mounting. The adjustment of inductance may be adjusted over a limited inductance range by means of a magnetic adjusting screw.



Code	Dimensions (inches) (excluding terminals)		Inductance
	Diameter	Length	
AMA	2	3-7/16	Adjustable
AMB	2	3-7/16	Fixed
AMC	2	3-7/16	Fixed
AMD	2	3-7/16	Adjustable
AR	1-5/8	2-11/16	Adjustable
ARA	1-5/8	2-11/16	Adjustable
ARB	1-5/8	2-11/16	Fixed
ARC	1-5/8	2-11/16	Fixed
ARD	1-5/8	2-11/16	Adjustable
AS	2-1/2	3-7/16	Adjustable
ASA	2-1/2	3-7/16	Adjustable
ASD	2-1/2	3-7/16	Fixed
AT	3	3-7/16	Fixed
ATA	3	3-7/16	Adjustable
ATB	3	3-7/16	Fixed
ATC	3	3-7/16	Adjustable

AMA TYPE INDUCTORS					
Adjustable Inductance					
Effective Inductance Adjustment Range Microhenries From To		Q		Method of Wdg	Code
		Min	Freq Kc		
1404	1460	155	300	B	AMA50
859	900	162	330	B	56
648	682	155	580	B	60
406	424	169	500	B	55
402	420	184	370	B	57
389	413	156	300	B	32
307	358	183	480	B	59
234.4	245	154	400	B	7
234	248.7	174	500	B	41
205.6	214.8	164	400	B	1
132.7	138.7	146	300	B	8
126.2	131.8	166	400	B	9
121.4	126.8	163	400	B	10
117.4	122.6	167	500	B	11
114.3	119.5	171	500	B	12
104.5	109.5	154	300	B	44
99.0	103.0	163	300	B	43
85.0	88.8	148	500	B	13
69.7	73.1	163	500	B	36
51.9	54.3	162	300	B	2
50.5	53.1	167	500	B	33
50.4	52.4	165	440	B	58
49.3	53.3	176	700	B	15
49.3	51.9	160	300	B	31
49.2	69.4	111.8	300	B	38*
47.6	64.0	137.7	500	B	39*
45.17	47.5	144.5	2300	SL	51
43.3	46.2	181	700	B	14
42.83	45.09	144.3	2300	SL	52
39.7	41.5	166	400	B	3
39.6	42.2	148	2000	B	28
38.52	40.5	143	2700	SL	53
38.0	54.2	141.9	500	B	40*
36.89	38.35	141.4	2700	SL	54
36.4	38.6	169	2000	B	26
36.2	37.8	163	700	B	45
34.6	36.4	157	1000	B	17
34.4	36.2	175	500	B	35
33.9	36.2	169	2000	SL	30
32.4	52.6	120.9	300	B	37*
31.3	32.7	164	400	B	4
29.5	31.1	173	1000	B	19
29.1	30.8	179	500	B	34
28.6	30.2	153	1000	B	25
26.3	27.9	141	1000	B	22
25.1	26.5	170	500	B	5
24.3	25.8	162	1000	B	24
23.0	24.5	171	2000	SL	29
20.9	21.9	160	500	B	6
17.64	18.52	166	500	B	47
17.6	18.7	163	1000	B	18
15.7	16.7	164	1000	B	16
15.4	16.4	154	1000	SL	21
15.29	16.03	168	500	B	46
9.7	10.3	158	1000	B	20
8.72	9.26	157	1000	B	23
6.6	7.0	96	500	SL	27
1.68	1.80	98	500	SL	42

* Inductance adjustment is by adjusting screw and taps.

AMB TYPE INDUCTORS					
Fixed Inductance					
Effective Inductance Microhenries Min Max		Q		Method of Wdg	Code
		Min	Freq Kc		
1900	1918	152	300	B	AMB 2
1645	1661	160	300	B	3
799.9	807.9	170	300	B	4
548.6	559.6	160	550	B	1

AMC TYPE INDUCTORS					
Fixed Inductance					
Effective Inductance Microhenries Min Max		Q		Method of Wdg	Code
		Min	Freq Kc		
169.5	175.4	99.4	450	D	AMC 7
73.6	81.2	48.3	90	D	10
24.75	25.25	55	100	D	12
16.47	16.93	75.5	200	D	11
1.517	1.563	100	500	D	1
1.370	1.410	100	500	D	2
1.232	1.268	100	500	D	3
1.123	1.157	100	500	D	4
1.035	1.065	100	500	D	5
.961	.990	106.8	500	D	9
.893	.914	103.6	400	D	8
.200	.206	55.4	60	D	6

AMD TYPE INDUCTORS					
Adjustable Inductance					
Effective Inductance Adjustment Range Microhenries From To		Q		Method of Wdg	Code
		Min	Freq Kc		
446.5	469.5	67.6	50	D	AMD 2
307.8	323.6	74	70	D	1

AR TYPE INDUCTORS					
Adjustable Inductance					
Effective Inductance Adjustment Range Microhenries From To		Q		Method of Wdg	Code
		Min	Freq Kc		
487	512	120.6	300	B	AR36
287	300	102.8	300	B	11
278	290	113.9	300	B	38
250.4	265.6	58.7	1700	SL	34
244.6	254.6	114.3	500	B	14
201.5	212.2	78.8	1700	SL	55
199	209	80.1	1400	SL	59
197.6	206.9	103.4	1200	B	33
190.2	201	96	1500	B	13
189.1	198.9	104.1	300	D	71
187	195	128	700	B	32
173.5	182.2	119.6	1000	B	15
172	181	108.3	400	B	37
169.1	177.7	76.2	1200	SL	54
150.9	160.3	132.5	500	B	39
132.2	139	70.7	900	SL	58
101.7	106.9	84	200	D	72
98.8	103.8	135.9	500	B	35
86	90	85	200	B	31
75.6	78.8	110	400	B	7
72.9	76.8	87.6	2600	SL	61
64.3	67.7	115	2500	B	45
57.9	60.9	88.9	3000	SL	56
56.9	59.9	17.5	100	D	70
50.5	52.6	131.7	2000	B	12
49.8	52.4	129.4	2300	SL	46
46.6	49	120.3	2700	SL	51
44.4	46.6	75.1	1000	SL	62
44.4	46.7	84.2	1500	SL	63
44.32	46.2	88.3	3000	B	8
44.3	46.6	121.9	2000	B	9
42.6	44.7	127.9	2300	SL	44
40.8	42.9	119.5	2700	SL	49
38.3	40.1	100.8	400	B	5
36.6	38.5	83.7	1900	SL	64
32.0	33.6	125.7	500	B	4
31.0	32.5	124.5	500	B	1
27.8	29.2	124	500	B	29
24.8	26.2	100.7	300	B	20
23.7	24.9	111.8	500	D	69
23.18	24.36	165	3000	SL	73
22.7	23.9	123.2	2700	B	53
19.5	20.5	75	2000	SL	60
17.9	18.8	147.5	2300	B	48
17.2	18.0	94.2	400	B	6
17.1	17.9	134.7	2700	B	52
15.6	16.4	150.7	2300	SL	65
12.15	12.75	117.8	1000	SL	47
9.65	10.15	127.5	500	B	2
9.3	9.7	121.9	500	B	28
9.2	9.66	116.7	1000	SL	50
8.78	9.22	126	500	B	3
6.84	7.14	135.9	1000	SL	17
4.87	5.13	134.3	1000	SL	43
3.15	3.29	117.5	1000	SL	19
2.93	3.07	60	5000	SL	57
2.51	2.79	97.4	500	SL	40
1.87	1.97	103.1	1000	SL	66
1.05	1.11	99.6	1000	SL	67
.90	.94	98.4	1000	SL	68
.76	.80	91.4	1000	SL	16
.476	.500	100	10000	SL	18

ARA TYPE INDUCTORS					
Adjustable Inductance					
Effective Inductance Adjustment Range Microhenries From To		Q		Method of Wdg	Code
		Min	Freq Kc		
975	1020	33.2	70		ARA 3
348	366	75.8	300		2
143.6	151	64.7	150		8
62.0	65.1	72	150		1
ARB TYPE INDUCTORS					
Fixed Inductance					
Effective Inductance Microhenries Min Max		Q		Method of Wdg	Code
		Min	Freq Kc		
169.8	171.8	124.6	300	B	ARB23
168.36	173.20	85.4	2050	SL	32
159.3	161.3	121.6	300	B	24
126.5	128.1	109.8	300	B	22
111.4	113.6	112.7	300	D	37
92.87	94.07	114.4	300	B	25
78.28	81.08	132	2000	B	1
62.60	63.36	111	300	B	21
53.58	54.24	118.9	300	B	26
51.08	52.93	104.7	3100	SL	3
50.80	51.46	119.8	300	B	15
49.83	50.49	119	300	B	9
47.04	47.98	94.3	2300	SL	31
44.97	45.55	107.3	300	B	18
44.32	46.67	51.4	3000	SL	6
39.11	40.57	128.8	2000	B	2
38.73	39.25	105.7	300	B	14
34.24	34.96	91.1	3000	SL	33
33.13	33.57	111	300	B	8
32.06	32.50	111.4	300	B	10
30.66	31.20	108.9	300	B	28
30.51	31.05	121.9	500	B	19
25.97	26.41	105.9	300	B	27
25.52	26.44	127.3	3100	B	4
23.26	23.73	91.2	3000	SL	30
17.72	17.98	89.2	300	B	17
16.53	16.77	87.8	300	B	20
16.24	16.48	86.3	300	B	16
15.83	16.09	101.1	400	B	11
15.38	15.64	100.8	400	B	13
15.0	15.8	135	2800	SL	35
11.10	11.22	170	2100	SL	54
10.99	11.63	128.7	3000	SL	5
10.96	11.08	170	2100	SL	52
10.95	11.15	116.8	400	B	12
9.56	9.66	170	2100	SL	53
7.77	7.85	170	3000	SL	39
7.65	7.73	155	2100	SL	50
7.43	7.50	150	2100	SL	46
6.88	6.96	150	2100	SL	51
5.92	5.98	150	2100	SL	49
4.43	4.48	135	2100	SL	47
4.20	4.24	165	3000	SL	38
3.63	3.67	160	3000	SL	42
3.453	3.487	160	3000	SL	45
3.283	3.317	155	3000	SL	43
3.241	3.273	140	2100	SL	48
3.015	3.045	150	3000	SL	40
2.846	2.874	150	3000	SL	44
2.766	2.794	150	3000	SL	41
2.55	2.65	100.3	500	SL	29
1.71	1.79	125	1000	SL	7
1.58	1.70	118.7	1000	SL	34
.540	.568	100	10000	SL	36

ARC TYPE INDUCTORS						
Fixed Inductance						
Effective Inductance Microhenries		Q		Method of Wdg	Code	
Min	Max	Min	Freq Kc			
51940	54060	45	100	D	ARC12	
267.1	272.1	100.6	300	D	7	
193.1	197.5	51.7	500	D	9	
160.9	164.1	38	700	D	8	
48.7	51.6	34	200	D	10	
33.5	35.6	165.7	200	D	11	
29	31	74.9	500	D	5	
24	26	74	500	D	4	
ARD TYPE INDUCTORS						
Adjustable Inductance						
Effective Inductance Adjustment Range Microhenries		Q		Method of Wdg	Code	
From	To	Min	Freq Kc			
4200	4430	65	120	D	ARD 1	
895	949	85.2	200	D	5	
638	672	84.4	200	D	2	
18.4	19.6	82.1	200	D	3	
3.75	3.99	83.6	200	D	4	
AS TYPE INDUCTORS						
Adjustable Inductance						
Effective Inductance Adjustment Range Microhenries		Q		Method of Wdg	Code	
From	To	Min	Freq Kc			
902	949	205	300	B	AS20	
529	550.4	205	300	B	18	
259.4	270.4	212.4	300	B	19	
134.8	141.0	192.6	500	B	1	
130.6	136.9	203.9	1000	B	3	
123.7	129.9	213.5	1400	B	5	
121.5	127.1	194.8	500	B	2	
111.2	116.7	213.1	1600	B	7	
110.8	116.1	162	2350	B	14	
110.1	116.2	190.2	2000	B	9	
107.8	113.4	209.6	300	B	30	
98.2	103.0	215.7	500	B	17	
49.1	51.2	207	1900	SL	10	
45.3	47.5	215.8	2100	SL	12	
38.3	40.1	163.6	500	SL	4	
35.5	37.3	202	500	B	31	
34.5	36.2	220.1	300	B	24	
29.3	30.7	192	2350	SL	15	
28.4	29.9	208.7	300	B	21	
22.8	23.8	147.8	500	SL	6	
21.7	22.7	148.6	500	SL	8	
21.7	22.7	186	300	B	23	
16.5	17.2	193	1000	SL	11	
14.9	15.7	182.7	500	B	28	
14.7	15.4	184.5	3000	SL	34	
13.68	14.38	208.5	300	B	29	
12.64	13.26	185.1	1000	SL	13	
11.58	12.18	186.7	500	B	32	
11.09	11.65	189.6	500	B	27	
10.40	10.94	196.4	500	B	25	
10.12	10.62	208.5	1000	SL	16	
9.23	9.71	208	300	B	22	
5.85	6.15	193.2	1000	SL	33	
4.94	5.20	190	500	B	26	

ASA TYPE INDUCTORS						
Adjustable Inductance						
Effective Inductance Adjustment Range Microhenries		Q		Method of Wdg	Code	
From	To	Min	Freq Kc			
2828	2944	54.2	34	D	ASA 2	
780	820	56	50	D	10	
558.6	581.6	56.4	34	D	5	
503.7	524.3	83.9	84	D	9	
452.3	470.9	54.8	37	D	6	
419.6	439.6	55.2	50	D	1	
373.8	389.2	77	41	D	7	
308.9	321.5	84.8	84	D	8	

ASD TYPE INDUCTORS						
Fixed Inductance						
Effective Inductance Microhenries		Q		Method of Wdg	Code	
Min	Max	Min	Freq Kc			
128	133	154.4	2300	SL	ASD 2	
116.2	120.3	152.7	2300	SL	3	
109.3	112.8	142	2700	SL	4	
98.7	102.2	142	2700	SL	5	
31.1	31.5	205	3000	SL	1	

AT TYPE INDUCTORS						
Fixed Inductance						
Effective Inductance Microhenries		Q		Method of Wdg	Code	
Min	Max	Min	Freq Kc			
48000	51000	120.9	10		AT 11	
48000	51000	114.4	10		12	
17720	18080	103.6	120		4	
8520	8800	123.4	125		1	
4180	4370	160.4	125		2	

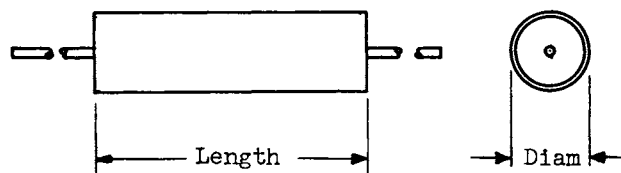
ATB TYPE INDUCTORS						
Adjustable Inductance						
Effective Inductance Adjustment Range Microhenries		Q		Method of Wdg	Code	
From	To	Min	Freq Kc			
265.1	279.1	168.2	70		ATB 1	
192.7	202.7	162.1	70		4	
124.1	130.5	153.1	70		3	
105.4	110.8	152.3	70		2	

ATC TYPE INDUCTORS					
Fixed Inductance					
Effective Inductance Microhenries		Q		Method of Wdg	Code
Min	Max	Min	Freq Kc		
1626	1646	160.9	70		ATC 1

ATA TYPE INDUCTORS					
Adjustable Inductance					
Effective Inductance Adjustment Range Microhenries		Q		Method of Wdg	Code
From	To	Min	Freq Kc		
11.85	12.45	217.3	500	SL	ATA 3
11.78	12.26	280	2000	SL	9
10.1	10.4	258.2	2100	SL	10
8.6	8.9	256.7	2100	SL	11
8.32	8.75	229	300	B	5
7.28	7.65	218.4	300	B	4
6.54	6.88	222.8	500	B	2
4.99	5.23	213.3	500	B	1
4.56	4.79	231.5	500	B	7
4.04	4.25	230.2	500	SL	6
3.73	3.87	255	3000	SL	8

AIR CORE INDUCTORS

Each inductor consists of a solenoidal winding enclosed in a phenolic tube and provided with axial leads.



<u>Code</u>	Dimensions (inches) (excluding terminals)		<u>Inductance</u>
	<u>Diameter</u>	<u>Length</u>	
AWA	17/32	1-17/32	Fixed
AWB	17/32	1-17/32	Fixed
AWD	11/32	1	Fixed

AWA TYPE INDUCTORS				
Fixed Inductance				
Inductance Microhenries		Approx DCR Ohms	Method of Wdg	Code
Min	Max			
594	606	9	ML	AWA19
189.69	193.51	26	SL	21
162.88	169.52	23.5	SL	22
161.4	164.6	24	SL	34
134.7	137.3	17.5	SL	29
119.1	120.5	15	SL	50
107.9	110.1	12	SL	58
107.3	109.5	12	SL	49
90	100	1.2	ML	17
76	84	8	SL	18
64.8	66.2	4.6	SL	4
55.3	56.3	9	SL	11
55	58	1.3	ML	57
50.7	51.7	8.6	SL	30
43.1	44.9	6.4	SL	31
42.4	44.0	2.5	SL	15
41.2	42.0	6.2	SL	48
40.7	42.1	6.2	SL	5
40.3	40.9	6.2	SL	8
37.6	38.2	5.5	SL	47
37.05	37.85	5	SL	56
34.6	35.3	2.4	SL	3
32.9	34.9	2.2	SL	28
31.1	32.3	3.2	SL	6
29.8	30.4	2.5	SL	40
29.4	30.6	2.6	SL	33
28.07	28.63	1.7	SL	54
27.2	27.7	2.5	SL	39
26.9	27.1	2.1	SL	46
26.8	27.8	2.5	SL	10
25.0	25.6	1.2	SL	14
24.2	24.6	1.9	SL	45
22.9	23.3	1.4	SL	52
20.8	21.2	1.3	SL	51
20.7	21.1	1.3	SL	32
20.6	21.2	1.4	SL	7
20.5	20.9	1.3	SL	42
19.9	20.3	1.3	SL	35
18.6	19.0	1.3	SL	12
18.6	19.0	1.1	SL	41
18.08	19.20	.73	SL	25
16.24	16.90	.7	SL	27
16.24	16.56	1.2	SL	53
14.45	15.35	.68	SL	26
14.1	14.4	1.4	SL	38
12.80	13.06	1.4	SL	37
10.3	10.5	.52	SL	36
9.85	10.15	.55	SL	20
9.76	10.16	.41	SL	24
9.52	9.80	.39	SL	44
8.66	8.92	.36	SL	43
7.3	7.6	.33	SL	9
6.34	6.54	.53	SL	55
6.09	6.33	.19	SL	23
2.89	3.01	.11	SL	16
1.42	1.52	.05	SL	13

AWB TYPE INDUCTORS				
Fixed Inductance				
Inductance Microhenries		Approx DCR Ohms	Method of Wdg	Code
Min	Max			
2900	3100	70	D	AWB11
1950	2050	45	D	13
1660	1740	40	D	12
1300	1500	31	D	7
925	1025	52	D	16
826	858	34	D	14
756	772	30	D	23
534	588	12.2	D	6
450	550	14	D	8
446	464	9	D	10
401	417	8	D	9
401	409	13.5	D	22
273.4	284.6	4.1	D	18
256.4	261.6	7.5	D	15
237	242	7.7	D	21
216	221	7.3	D	20
193	201	3	D	17
184.7	192.3	2.7	D	19
175.1	178.7	2.8	D	24
114.4	116.8	1.7	D	2
24.16	24.64	.5	D	5

AWD TYPE INDUCTORS				
Fixed Inductance				
Inductance Microhenries		Approx DCR Ohms	Method of Wdg	Code
Min	Max			
134	142	7.5	ML	AWD 9
105	112	5.2	ML	13
87	93	6.3	ML	12
81	86	3.8	ML	6
61	65	4.6	ML	11
43.5	46.5	3.8	ML	10
34	36	3.6	ML	8
27	29	3.3	ML	7
12.8	14.2	4.1	SL	5
9.8	10.2	.26	ML	4
7.3	7.6	1.5	SL	3
1.45	1.55	.14	SL	2
.47	.53	.034	SL	1

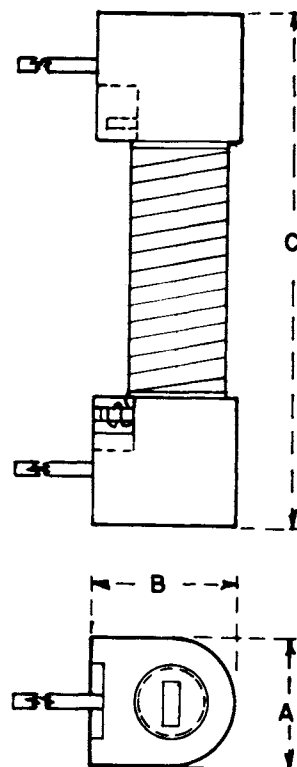
AIR CORE INDUCTORS

Each inductor consists of a winding on a molded phenolic tube provided with terminal leads for mounting.

The CAB type inductor is supplied with a magnetic adjusting screw for the adjustment of the inductance over a limited inductance range by the user.

The CAG type is furnished adjusted and sealed to inductance specified on order.

The 1567A, B and C inductors are identical to the CAB9, 16 and 24, respectively, but with the adjustable cores omitted.



Code	Dimensions (inches) (excluding terminals)			Inductance
	A	B	C	
CAB	7/16	1/2	1-3/4	Adjustable
CAG	7/16	1/2	1-3/4	Fixed
1567	7/16	1/2	1-3/4	Fixed

CAB TYPE INDUCTORS			
Adjustable Inductance			
Inductance Adjustment Range Microhenries		Method of Wdg	Code
From	To		
638.2	1063.8	PD	CAB39
524.2	873.8	PD	38
359.2	598.8	PD	37
233.2	388.8	PD	36
155.8	259.6	PD	35
100.5	167.5	PD	34
86.8	117.4	SL	33
71.7	96.9	SL	32
59.2	80.0	SL	31
48.8	66.0	SL	30
40.3	54.5	SL	29
36.5	49.5	SL	40
33.2	45.0	SL	28
27.5	37.1	SL	27
22.6	30.6	SL	26
18.7	25.3	SL	25
15.44	20.88	SL	24
12.74	17.24	SL	23
10.51	14.23	SL	22
8.68	11.74	SL	21
7.17	9.69	SL	20
5.92	8.00	SL	19
4.88	6.60	SL	18
4.03	5.45	SL	17
3.32	4.50	SL	16
2.75	3.71	SL	15
2.26	3.06	SL	14
1.87	2.53	SL	13
1.544	2.088	SL	12
1.274	1.724	SL	11
1.051	1.425	SL	10
.868	1.174	SL	9
.717	.969	SL	8
.592	.800	SL	7
.488	.660	SL	6
.403	.545	SL	5
.332	.450	SL	4
.275	.371	SL	3
.226	.306	SL	2
.187	.253	SL	1

CAG TYPE INDUCTORS			
Fixed Inductance			
Inductance Factory Fixed to Value Ordered Between Microhenries		Method of Wdg	Code
Min	Max		
720	1000	PD	CAG54
540	720	PD	53
380	540	PD	52
245	380	PD	51
165	245	PD	50
112	165	PD	49
92	112	SL	1
76	92	SL	2
63	76	SL	3
52	63	SL	4
43	52	SL	5
35	43	SL	6
29	35	SL	7
24	29	SL	8
20	24	SL	9
16	20	SL	10
13	16	SL	11
11	13	SL	12
9.2	11	SL	13
7.6	9.2	SL	14
6.3	7.6	SL	15
5.2	6.3	SL	16
4.3	5.2	SL	17
3.5	4.3	SL	18
2.9	3.5	SL	19
2.4	2.9	SL	20
2.0	2.4	SL	21
1.6	2.0	SL	22
1.3	1.6	SL	23
1.1	1.3	SL	24
.92	1.1	SL	25
.76	.92	SL	26
.63	.76	SL	27
.52	.63	SL	28
.43	.52	SL	29
.35	.43	SL	30
.29	.35	SL	31
.24	.29	SL	32
.20	.24	SL	33

1567 TYPE INDUCTORS			
Fixed Inductance			
Inductance Microhenries		Method of Wdg	Code
Min	Max		
13.8	15.1	SL	1567C
2.95	3.25	SL	B
.77	.81	SL	A

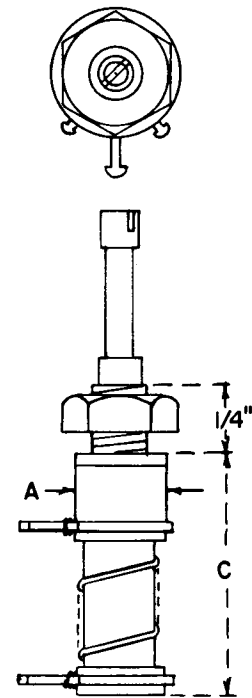
AIR CORE INDUCTORS

Each inductor consists of a winding on a molded phenolic tube.

The CAE, 304 and 1525 type inductors are all supplied with a magnetic adjusting screw for the adjustment of the inductance over a limited inductance range by the user.

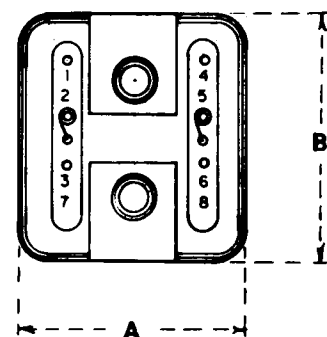
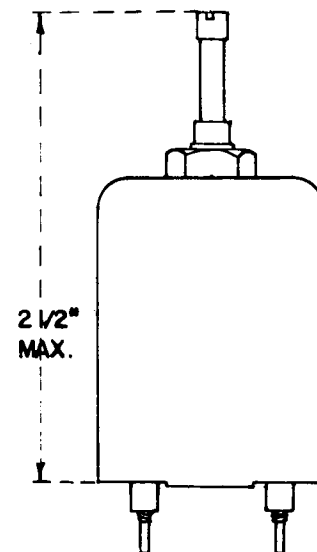
The 1525A to J inductors consist of the CAE53 to 61 inductors, respectively, assembled in a metal can.

The 1568A, B and C inductors are identical to the CAE7, 10 and 56 inductors, respectively, but with the adjustable cores omitted.



CAE, 304, 1568 types

Code	Dimensions (inches)			Inductance
	A	B	C	
CAE	5/16		7/8	Adjustable
304	19/32		1-19/32	Adjustable
1525	1-1/32	1-3/16	1-7/16	Adjustable
1568	5/16		7/8	Fixed



1525 Type

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CAE TYPE INDUCTORS			
Adjustable Inductance			
Inductance Adjustment Range Microhenries		Method of Wdg	Code
From	To		
2120	2580	D	CAE62
1670	2030	D	63
585	705	D	64
215	245	D	65
90	105	D	66
19.5	38.8	SL	61 *
19.5	38.8	SL	76 *
14.7	29.4	SL	60
14.7	29.4	SL	75 *
11.6	23.0	SL	59
11.6	23.0	SL	74 *
8.9	17.6	SL	58
8.9	17.6	SL	73 *
7.0	14.0	SL	57
7.0	14.0	SL	72 *
5.4	10.7	SL	56
5.4	10.7	SL	71 *
4.4	8.4	SL	55
4.4	8.4	SL	70 *
3.4	6.5	SL	54
3.4	6.5	SL	69 *
2.7	5.2	SL	53
2.7	5.2	SL	68 *
2.15	4.1	SL	48
2.05	3.8	SL	47
1.95	3.7	SL	46
1.85	3.6	SL	45
1.8	3.4	SL	44
1.75	3.3	SL	43
1.65	3.2	SL	42
1.6	3.0	SL	41
1.5	2.9	SL	40
1.45	2.8	SL	39
1.4	2.65	SL	38
1.3	2.5	SL	37
1.25	2.4	SL	36
1.15	2.25	SL	35
1.1	2.1	SL	34
1.0	2.0	SL	33
.98	1.90	SL	32
.91	1.75	SL	31
.85	1.65	SL	30
.81	1.55	SL	29
.75	1.40	SL	28
.69	1.35	SL	27
.67	1.25	SL	26
.60	1.15	SL	25
.58	1.1	SL	24
.52	1.0	SL	23
.47	.88	SL	22
.44	.82	SL	21
.39	.75	SL	20
.37	.67	SL	19
.33	.60	SL	18
.30	.54	SL	17
.27	.49	SL	16
.24	.42	SL	15
.22	.38	SL	14
.19	.33	SL	13
.17	.29	SL	12
.145	.250	SL	11
.125	.200	SL	10
.105	.175	SL	9
.08	.14	SL	8

CAE TYPE INDUCTORS			
Adjustable Inductance			
Inductance Adjustment Range Microhenries		Method of Wdg	Code
From	To		
.078	.120	SL	CAE 7
.061	.080	SL	6
.052	.076	SL	67 **
.052	.076	SL	5
.040	.055	SL	4
.035	.044	SL	3
.024	.028	SL	2
* Same as CAE53 to 61 except for protective case.			
** Same as CAE5 except for terminal arrangement.			

304 TYPE INDUCTORS			
Adjustable Inductance			
Inductance Adjustment Range Microhenries		Method of Wdg	Code
From	To		
40	125	SL	304B
35	105	SL	K
20	55	SL	F
16.5	51.5	SL	G
12	36	SL	C
7	21	SL	E
5	15	SL	D
2	6	SL	J
.05	.15	SL	A

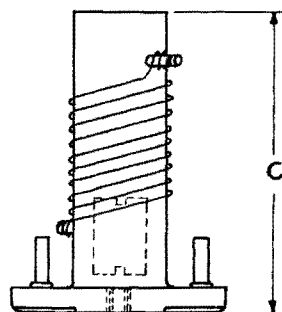
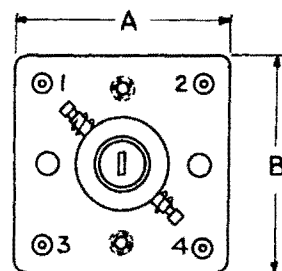
1525 TYPE INDUCTORS			
Adjustable Inductance			
Inductance Adjustment Range Microhenries		Method of Wdg	Code
From	To		
19	37	SL	1525J
14	28	SL	H
11.2	22	SL	G
8.6	16.8	SL	F
6.7	13.5	SL	E
5.2	10.2	SL	D
4.3	8.1	SL	C
3.3	6.3	SL	B
2.6	5.0	SL	A

1568 TYPE INDUCTORS			
Fixed Inductance			
Approximate Inductance	Method of Wdg	Code	
5.	SL	1568C	
.1	SL	B	
.07	SL	A	

AIR CORE INDUCTORS

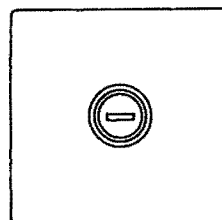
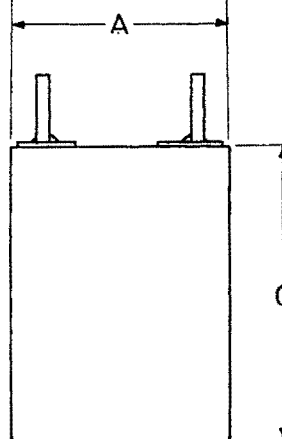
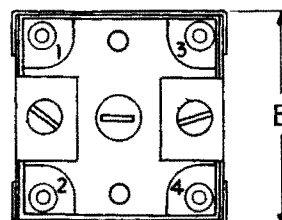
Each inductor consists of a winding or windings on a molded cylindrical phenolic spool with a square spoolhead at one end. Terminals on base plate are not used for coil, but provided for mounting of other network components.

The CAA and 1521 type inductors are supplied with a magnetic adjusting screw for the adjustment of the inductance over a limited inductance range by the user. The CAF type is furnished adjusted and sealed to inductance specified on order. The 1521 inductors consist of CAA type inductors assembled in a rectangular metal can.



CAA and CAF types

Code	Dimensions (inches) (excluding terminals)			Inductance
	A	B	C	
CAA	1-15/32	1-15/32	2-1/16	Adjustable
CAF	1-15/32	1-15/32	2-1/16	Fixed
1521	1-9/16	1-9/16	2-1/16	Adjustable



1521 type

CAA TYPE INDUCTORS		
Adjustable Inductance		
<u>Single Layer Solenoidal Winding</u>		
Inductance Adjustment Range Microhenries		Code
From	To	
187	255	CAA103
180	255	37
155	210	102
147	210	36
128	170	101
118	170	35
106	140	100
100	140	34
87	120	99
85	120	33
76	110	95
70	95	65
64	92	32
56	80	31
49	69	30
43	60	94
37	50	29
33	47	28
30	43	93
25	36	27
22	31	26
20	27	25
17.3	22.8	92
15.5	21.5	24
13.2	18.0	23
11.5	16.2	22
9.8	13.5	91
8.7	11.7	21
7.7	10.5	90
7.2	9.7	98
6.9	9.5	20
6.1	8.2	19
6.0	7.9	97
5.6	7.3	89
4.9	6.6	18
4.1	5.5	17
3.75	5.1	88
3.35	4.6	16
3.15	4.1	87
2.8	3.7	15
2.7	3.5	45
2.55	3.3	86
2.25	3.1	14
1.95	2.72	13
1.75	2.4	85
1.55	2.12	12
1.33	1.83	84
1.12	1.55	11
.96	1.27	10
.84	1.15	9
.72	1.00	8
.70	.90	105
.63	.88	7
.56	.80	83
.53	.75	104
.49	.70	6
.45	.61	82
.42	.55	5
.41	.54	109
.35	.50	81
.32	.43	4
.28	.37	3
.255	.330	80
.225	.290	2
.195	.265	1

CAA TYPE INDUCTORS		
Adjustable Inductance		
<u>Solenoidal Bank or Progressive Duolateral Winding</u>		
Inductance Adjustment Range Microhenries		Code
From	To	
840	1100	CAA 78
790	1060	77
690	930	76
570	780	75
475	640	74
380	540	73
290	410	72
280	360	69
224	312	71
165	215	119
140	180	118
120	155	47
105	135	113
95	125	117
86	111	116
63	82	115
42	55	120
40	52	43
26	34	42
18	23	46
9	11.5	121
6.9	8.7	70

<u>Center-tapped Parallel Pair Winding</u>		
From	To	Code
315	365	CAA 66
230	280	48
145	180	106
103	123	59
60	70	58
43	57	122
40	50	108
26	34	107
22	28	123
21	25	110

<u>Single Section or Multi-section Duolateral Winding</u>		
From	To	Code
5150	6100	CAA114
4600	5400	96
970	1150	111
790	1010	41
640	750	52
400	500	61
370	480	44
320	375	56
270	340	62
270	320	39
260	360	112
195	245	40
194	225	55
165	205	63
145	165	38
107	135	60
57	67	64

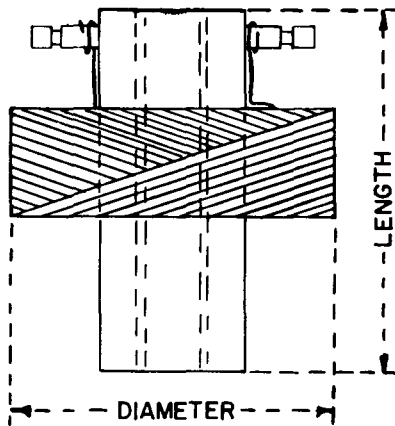
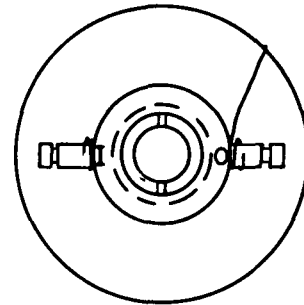
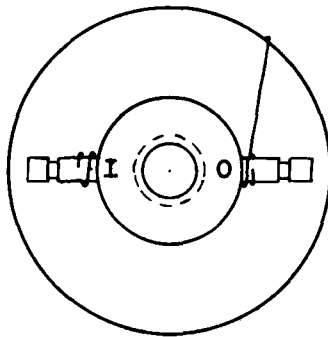
CAF TYPE INDUCTORS		
Fixed Inductance		
Single Layer Solenoidal Winding		
Inductance Factory Fixed to Value Ordered Between Microhenries		Code
Min	Max	
200	241	CAF 1
164	200	2
136	164	3
112	136	4
92	112	5
76	92	6
63	76	7
52	63	8
43	52	9
35	43	10
29	35	11
24	29	12
20	24	13
16	20	14
13	16	15
11	13	16
9.2	11	17
7.6	9.2	18
6.3	7.6	19
5.2	6.3	20
4.3	5.2	21
3.5	4.3	22
2.9	3.5	23
2.4	2.9	24
2.0	2.4	25
1.6	2.0	26
1.3	1.6	27
1.1	1.3	28
.92	1.1	29
.76	.92	30
.63	.76	31
.52	.63	32
.43	.52	33
.35	.43	34
.29	.35	35
.24	.29	36
.20	.24	37

1521 TYPE INDUCTORS				
Adjustable Inductance				
Inductance Adjustment Range Microhenries		Q		Code
		Min	Freq Mc	
5000	5700	65	.2	1521AE
2150	2550	70	.25	CE
1430	1650	85	.25	CF
970	1170	100	.25	CG
760	1150	107	.5	U
730	1050	93	.5	T
630	890	121	.5	BH
530	740	117	.5	AK
440	610	117	.5	BG
360	500	128	.8	S
270	380	116	.8	R
250	350	125	.8	P
210	290	116	.8	AC
165	235	47	1.3	N
135	190	47	1.3	M
110	155	47	1.3	L
92	125	60	1.3	K
79	110	78	1.5	J
71	99	75	1.5	CD
59	82	73	1.5	BF
51	72	80	2.1	H
44	61	97	2.1	AF
40	56	96	2.1	CC
34	48	95	2.1	BE
30	43	92	2.1	G
27.5	38.5	106	2.1	CB
23.5	33	120	3.4	F
20	28.5	122	3.4	AJ
18.5	25.5	122	3.4	BD
16	23	116	3.4	CA
14.5	20	109	3.4	E
12.5	17	116	4.6	BC
10.5	15	121	4.6	D
9.1	12.5	117	4.6	BY
8	11	114	4.6	C
7.1	9.9	115	4.6	BW
6.4	8.9	116	4.6	B
5.5	7.8	125	7.5	A
5.2	7.2	126	7.5	BU
4.5	6.2	128	7.5	AB
3.8	5.2	143	7.5	AA
3.4	4.7	143	7.5	BT
3.1	4.2	143	7.5	Y
2.9	3.9	136	7.5	BS
2.6	3.5	128	7.5	W
2.35	3.1	136	7.5	BR
2.1	2.8	143	10	AH
1.8	2.4	143	10	AG
1.6	2.1	141	10	BP
1.45	1.95	139	10	BB
1.25	1.65	137	10	BN
1.05	1.35	135	15	BA
.92	1.15	135	15	AY
.81	1.05	132	15	AW
.7	.9	132	15	AU
.63	.79	128	15	AT
.58	.72	130	15	BM
.5	.62	134	15	AS
.46	.57	134	15	BL
.43	.53	134	25	AR
.38	.48	118	25	BK
.34	.42	112	25	AP
.31	.39	90	25	AN
.29	.36	90	25	BJ
.26	.33	90	25	AM
.23	.29	90	25	AL

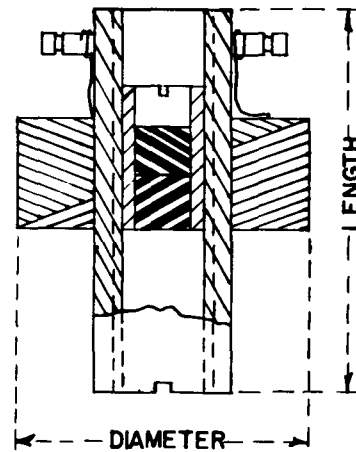
AIR CORE INDUCTORS

Each inductor consists of a duolateral winding on a phenolic form arranged to be mounted with a single screw.

<u>Code</u>	<u>Inductance</u>
CH	Fixed
CN	Adjustable
200	Fixed
296	Fixed

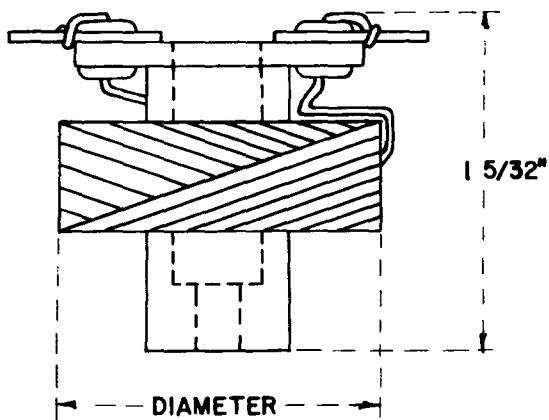
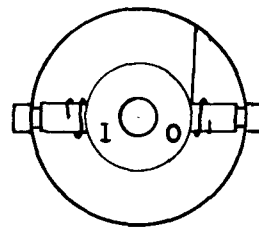
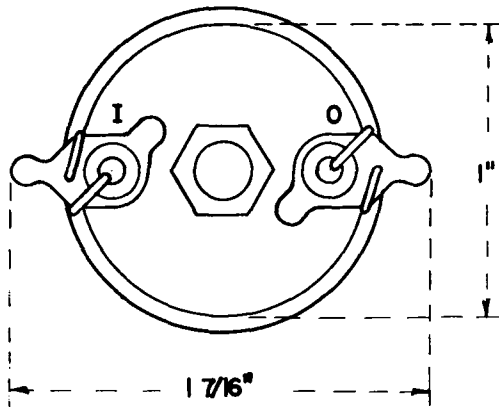


CH type

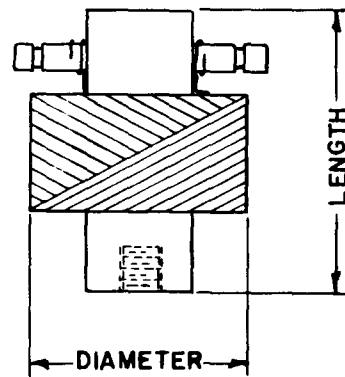


CN type

AIR CORE INDUCTORS



200 type



296 type

TABLE I

CH TYPE INDUCTORS						
Fixed Inductance						
Inductance Millihenries		Approx DCR Ohms	Approx Diameter	Length	Type	Code
Min	Max					
227	(nom)	1000	1-3/8	1-3/8	1	CH59
60.0	62.4	320	1-1/32	1-1/4	1	1
50	(nom)	200	1-3/16	1-3/8	1	60
39	(nom)	70	1-3/4	1-3/4	2	11
18	(nom)	24	1-3/4	1-3/8	1	9
17.6	18.4	150	1-1/32	1-1/4	1	2
14.17	14.45	143	5/8	1-23/32	2	81
14	(nom)	41	1-3/4	1-3/8	1	50
12.84	13.10	37	1-1/4	1-3/8	1	29
10.6	10.8	85	1	1-3/8	2	34
9.8	10.2	57	1-1/8	1-1/4	1	26
9.5	-	75	7/8	1-3/4	2	42
8	(nom)	28	1-5/8	1-1/4	1	24
6.8	(nom)	27	1-3/8	1-3/8	1	49
5.42	5.52	86	1/2	1-23/32	2	78
4.872	4.928	67	15/16	1-1/4	1	27
3.915	3.975	5.3	1-7/8	1-3/4	1	19
3	-	5.7	1-3/8	2	2	90
2.675	2.725	14	1	11/16	1	84
2.58	2.62	40	3/4	1-3/8	2	38
2.2	(nom)	4.4	1-1/2	1-1/8	1	8
1.43	1.57	2.2	1-1/2	1-1/4	1	48
1.43	1.49	3.5	1-3/8	1-3/4	1	39
1.390	1.418	22	7/8	1-7/8	1	52
1.303	1.323	2.7	1-1/2	1-3/4	1	20
1.179	1.191	13	1	1-3/8	1	80
.869	.887	6.6	3/4	1-1/4	1	91
.766	.798	16	11/16	1-1/4	1	3
.735	.785	12	5/8	1	1	62
.709	.723	6.4	1	11/16	1	86
.68	.72	1.4	1-3/16	1-1/4	1	47
.606	.618	5.4	3/4	1-1/4	1	93
.594	.606	2.4	1	11/16	1	82
.523	.577	2.6	1	11/16	1	4
.45	.47	3.3	7/8	1-1/4	1	46
.438	.470	32	1/2	15/16	2	44
.436	.446	3	1	11/16	1	85
.426	.434	10	3/4	1-7/8	1	53
.389	.397	3.1	3/4	1-1/4	1	28
.362	.388	29	1/2	15/16	2	45
.328	.334	2.6	7/8	1-3/8	1	76
.318	.326	8.5	3/4	1-7/8	1	54
.263	.269	7.8	3/4	1-3/8	1	77
.252	.270	25	1/2	15/16	2	43
.239	.244	.75	1-3/16	1-5/16	1	57
.20	(nom)	.7	5/8	1-7/8	1	55
.195	.199	1.2	1	1-1/4	1	92
.133	.135	1	1-1/8	1-3/8	1	79
.127	.130	.4	1-1/8	1-3/8	1	31
.12	(nom)	.7	1-1/8	1-1/4	1	5
.1013	.1053	.9	15/16	1-3/8	1	41
.1013	.1053	.9	15/16	11/16	1	58
.088	.090	.26	1-1/8	1-3/8	1	30
.0842	.0876	.8	15/16	1-3/8	1	40
.07	.09	1.8	3/4	11/16	1	10
.040	.045	2.2	9/16	11/16	1	88
.0339	.0355	.14	1	11/16	1	83
.0081	.0085	.23	5/8	1-1/4	1	7

Type 1 - Single duolateral winding, two terminals.

2 - Single winding, two terminals, multiple duolateral sections.

TABLE II

CH TYPE INDUCTORS						
Fixed Inductance						
Inductance Millihenries (1-2)(3-4) Min Max		Approx DCR Ohms	Approx Diameter	Length	Type	Code
228.2	231.4	100	2-1/4	4	3	CH12
27.68	28.08	13	2-1/2	3	3	16
16.83	17.07	8	2-1/2	3	3	15
9.23	9.37	5	2-1/2	3	3	14
1.76	1.80	5.5	1-3/8	3	3	17
.787	.803	7.6	1	1-1/4	3	6
.608	.621	1.9	1-3/8	3	3	18

Type 3 - Two equal duolateral windings, four terminals.

CN TYPE INDUCTORS							
Adjustable Inductance							
Inductance Adjustment Range Millihenries From To		Q		Approx Diameter (inches)	Length (inches)	Method of Wdg	Code
		Min	Freq Kc				
71.33	75.75	58.2	50	1	1-3/4	D	CN25
27.30	28.23	97.2	80	1-5/8	1-3/4	D	26
11.7	12.33	136	80	1-5/8	1-3/4	D	27
5.7	5.86	32.3	10	1-1/2	1-3/4	D	5
5.409	5.629	60.6	30	1-1/2	1-3/4	D	4
2.972	3.094	67	30	1-5/8	1-3/4	D	3
1.665	1.733	62.8	30	1-1/4	1-3/4	D	1
1.373	1.429	61.2	30	1-1/4	1-3/4	D	2
.7367	.7567	59.4	100	1/4	1-5/16	D	14
.5621	.5779	61.5	100	1/4	1-5/16	D	19
.5024	.5166	58	100	7/8	1-5/16	D	16
.3835	.3943	59	100	7/8	1-5/16	D	18
.3598	.370	80.7	160	7/8	1-5/16	D	20
.3509	.3609	58.1	100	7/8	1-5/16	D	21
.2881	.2963	55.7	100	7/8	1-5/16	D	15
.2517	.2589	54.2	100	7/8	1-5/16	D	17
.2454	.2526	66.8	160	13/16	1-5/16	D	23
.2407	.2457	65.5	140	7/8	1-5/16	D	12
.1795	.1910	122.6	140	15/16	1-3/4	D	31
.1747	.1783	65.9	100	15/16	1-5/16	D	7
.1599	.1631	68.3	100	15/16	1-5/16	D	6
.1527	.1559	65.3	100	15/16	1-5/16	D	10
.1498	.1528	66.2	100	15/16	1-5/16	D	8
.1487	.1579	105.8	80	1-1/16	1-3/4	D	28
.1408	.1448	60.7	100	15/16	1-5/16	D	22
.1222	.1246	59.6	32	1-5/8	3-1/4	D	32
.1014	.1035	72.8	140	7/8	1-5/16	D	13
.0873	.0891	60.3	42	1-5/8	3-1/4	D	33
.0850	.0904	103.3	140	7/8	1-3/4	D	30
.0715	.0735	97.2	160	7/8	1-5/16	D	24
.0703	.0718	63.2	140	7/8	1-5/16	D	11
.0624	.0638	46.6	100	7/8	1-5/16	D	9
.0119	.0127	101.6	140	1-1/8	1-3/4	D	29

200 TYPE INDUCTORS					
Fixed Inductance					
Inductance Millihenries Min Max		Approx DCR Ohms	Approx Winding Diameter Inches	Method of Wdg	Code
247	257	680	1-5/16	D	200 R
108	113	400	1-3/16	D	Y
69	72	310	1-1/8	D	AA
48	52	175	1-3/16	D	CH
40.74	43.26	105	1-1/8	D	D
37.5	38.5	72	1-3/4	D	BT
34.7	36.1	165	1-1/8	D	AU
27	29	107	1-1/8	D	BH
24	26	135	1	D	BG
19.3	19.5	105	1-1/8	D	BU
14.4	15.6	38	1-3/8	D	CG *
14.25	15.75	40	1-1/4	D	AK
11.9	12.4	60	1-1/8	D	AW
9.5	10.5	30	1-3/8	D	BS
9.5	10.5	57	1-1/8	D	AD
9.4	9.8	53	1-1/8	D	AY
7.6	8.4	50	1-1/8	D	CU
7	(nom)	11	1-3/4	D	AS
5.75	6.0	31	1	D	BA
5.50	5.72	17	1-5/16	D	M
5.30	5.50	43	1-1/4	D	AH
5.00	5.20	42	1-1/4	D	AG
4.975	5.025	67	15/16	D	T
4.75	5.25	35	1-1/4	D	J
4.7	5.3	16	1-1/16	D	BR
4.45	4.65	27	1	D	BB
3.47	3.61	25	1	D	BC
3.22	3.36	24	1	D	BD
2.30	2.39	47	15/16	D	N
2.10	2.19	18	1-3/16	D	AF
2.08	2.17	19	7/8	D	BE
1.92	2.08	11.5	1	D	CJ
1.70	1.80	25	15/16	D	AN
1.7	(nom)	4	1-1/4	D	AT
1.467	1.533	4.1	1-3/8	D	CM
1.40	1.46	11	1-3/16	D	AJ
1.3	1.4	6	15/16	D	BP
1.22	1.34	31	13/16	D	L
1.0	(nom)	2	1-1/8	D	CL
.99	1.03	7	1-3/16	D	H
.97	1.03	8.5	1-1/4	D	CB
.80	.84	3	1	D	CF
.575	.615	6	1-1/8	D	AM
.50	.55	3.2	1-1/16	D	BJ
.485	.515	11	3/4	D	A
.385	.405	6	7/8	D	AL *
.376	.384	3.1	13/16	D	U
.340	.360	2.2	1-1/2	D	BW
.291	.309	1.7	1-3/8	D	CN
.243	.257	1.1	1-3/16	D	CE
.211	.219	1.3	1-1/16	D	S
.17	(nom)	.6	7/8	D	CP
.145	.155	1.2	1-1/8	D	CA
.095	.105	1	1	D	CW
.0627	.0693	1.2	5/8	D	CC
.0567	.0603	.64	11/16	D	BN *
.048	.052	13	1-1/4	D	CR
.048	.052	.6	1	D	BY
.0323	.0357	.8	5/8	D	CD
.027	.029	1	9/16	D	BM
.0233	.0257	.9	5/8	LW	KA
.022	.024	.9	9/16	D	BL
.0215	.0235	.44	3/4	D	W

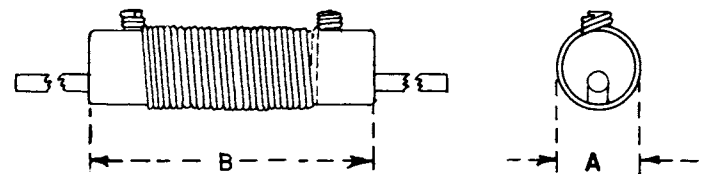
* Two equal windings

200 TYPE INDUCTORS					
Fixed Inductance					
Inductance Millihenries Min Max		Approx DCR Ohms	Approx Winding Diameter (inches)	Method of Wdg	Code
.0203	.0223	.15	1	D	200AP
.018	.020	.7	5/8	LW	KB
.018	.020	.8	9/16	D	BK
.0162	.0178	.65	5/8	LW	KC
.0158	.0174	.45	5/8	LW	KJ
.0138	.0152	.44	5/8	LW	KD
.0123	.0137	.38	5/8	LW	KE
.0109	.0121	.24	5/8	LW	KF
.0095	.0105	.22	5/8	LW	KG
.00855	.00945	.2	5/8	LW	KL
.00855	.00945	.29	5/8	LW	KH
.00774	.00856	.26	5/8	LW	KK
.00775	.00825	.7	3/4	D	CS
.00617	.00681	.11	5/8	LW	KN
.00585	.00647	.16	5/8	LW	KM
.0055	(nom)	.2	5/8	LW	K
.00475	.00525	.12	5/8	LW	KP
.00417	.00477	.05	1-1/8	LW	AR
.00295	.00345	.07	5/8	LW	KS

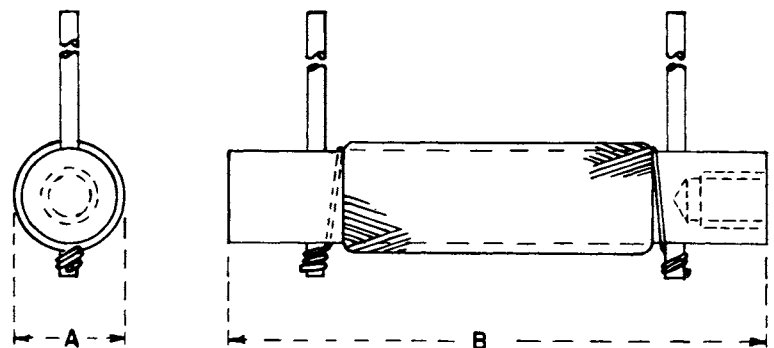
296 TYPE INDUCTORS						
Fixed Inductance						
Inductance Millihenries Min Max		Approx DCR Ohms	Approx Winding Diameter Inches	Length Inches	Method of Wdg	Code
9.2	10.8	110	1-1/16	11/16	D	296H
9.2	10.8	110	7/8	11/16	D	J
4.9	5.6	45	3/4	3/32	D	B
4.2	(nom) *	22	15/16	1-1/8	D	G
4.0	4.4	13	15/16	1-1/8	D	C
4.0	4.4	13	1	1-1/8	D	D
2.02	2.11	28	11/16	1-1/8	D	E
.398	.415	10	9/16	31/32	D	A
.32	(nom)	2.7	3/4	1-1/8	D	F
* Winding (1-2)(3-4) series aiding						

AIR CORE INDUCTORS

Each inductor consists of a solenoidal winding on a cylindrical ceramic core and provided with axial leads.



302, 320, 1564 types



1500 type

<u>Code</u>	<u>Dimensions (inches)</u> (excluding terminals)		<u>Inductance</u>
	<u>A</u>	<u>B</u>	
302	7/32	3/4	Fixed
320	21/64	7/8	Fixed
1500	15/64	1-1/4	Fixed
1564	9/64	1/2	Fixed

302 TYPE INDUCTORS			
Fixed Inductance			
Nominal Inductance Microhenries	Tolerance Percent	Method of Wdg	Code
14.6	10	SL	302CB
8.57	1	SL	BC
7.20	10	SL	U
7.20	3	SL	AU
6.80	5	SL	CU
5.77	3	SL	BS
5.18	5	SL	CW
4.62	2	SL	BR
4.00	10	SL	BP
3.70	5	SL	AY
3.65	2	SL	CY
3.27	4	SL	CK
2.99	5	SL	CM
2.59	4	SL	CL
2.42	7	SL	W
2.16	6	SL	CE
2.11	3	SL	P
1.90	14	SL	N
1.58	10	SL	AW
1.26	6	SL	M
1.21	5	SL	CD
1.18	4	SL	L
1.02	4	SL	K
.872	6	SL	CF
.85	8	SL	R
.81	4	SL	J
.807	5	SL	CJ
.77	8	SL	H
.73	8	SL	G
.73	4	SL	AT
.70	8	SL	F
.675	8	SL	CC
.66	8	SL	E
.62	10	SL	D
.60	8	SL	C
.57	8	SL	B
.556	5	SL	CH
.52	4	SL	AS
.41	9	SL	A
.360	5	SL	CG
.355	4	SL	BE
.347	4	SL	BJ
.320	10	SL	BN
.300	4	SL	BW
.298	4	SL	AK
.283	4	SL	AJ
.244	5	SL	CS
.239	4	SL	AM
.229	4	SL	BY
.227	4	SL	BU
.220	8	SL	AD
.219	4	SL	BL
.209	4	SL	BG
.200	5	SL	Y
.19	10	SL	BB
.172	4	SL	AR
.164	4	SL	BF
.16	10	SL	BM
.156	4	SL	CA
.156	4	SL	BK
.144	4	SL	BH
.131	4	SL	AH

302 TYPE INDUCTORS			
Fixed Inductance			
Nominal Inductance Microhenries	Tolerance Percent	Method of Wdg	Code
.128	5	SL	302AF
.117	4	SL	AL
.114	5	SL	BT
.107	4	SL	AP
.103	4	SL	AG
.100	12	SL	T
.100	5	SL	AE
.097	6	SL	CR
.086	10	SL	AC
.084	7	SL	BD
.080	5	SL	CP
.068	6	SL	AN
.053	10	SL	CT
.045	9	SL	CN
.036	9	SL	AB
.020	10	SL	AA

320 TYPE INDUCTORS			
Fixed Inductance			
Nominal Inductance Microhenries	Tolerance Percent	Method of Wdg	Code
37.15	1	SL	320H
26.11	2	SL	F
20	10	SL	A
19.62	10	SL	G
18	2	SL	N
16.76	1	SL	D
10.8	2	SL	B
5.1	1	SL	C
3.52	1	SL	E
3.134	1	SL	S
2.5	10	SL	L
1.428	1	SL	M
.874	1	SL	P
.414	1.5	SL	T
.350	1.5	SL	U

1500 TYPE INDUCTORS			
Fixed Inductance			
Nominal Inductance Microhenries	Tolerance Percent	Method of Wdg	Code
126	3	PD	1500F
43.63	1	SL	A
40.44	1	SL	B
11	1	SL	C
1.597	1	SL	D

1564 TYPE INDUCTORS			
Fixed Inductance			
Nominal Inductance Microhenries	Tolerance Percent	Method of Wdg	Code
2.935	3	SL	1564 C
1.000	4.5	SL	AA
.873	3	SL	D
.817	3	SL	A
.628	2	SL	N
.607	3	SL	B
.550	2	SL	R
.475	2	SL	M
.423	2	SL	P
.380	2	SL	L
.330	2	SL	S
.230	2	SL	K
.165	2	SL	J
.160	3	SL	Y
.155	4.5	SL	F
.130	4.5	SL	G
.090	3.5	SL	H
.075	10	SL	E
.040	7	SL	T
.030	6	SL	U
.020	10	SL	W

AIR CORE INDUCTORS

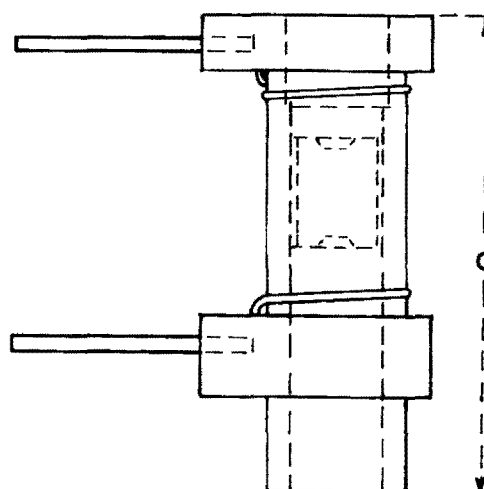
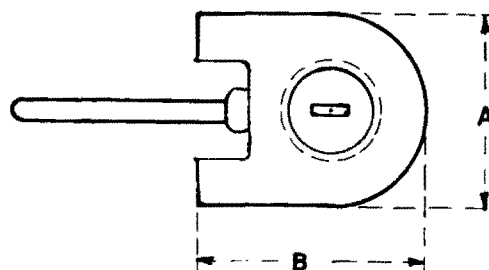
Each inductor consists of a single layer winding on a mica-filled phenolic spool and provided with a threaded magnetic core.

The 1501 type inductor is supplied with a threaded magnetic adjusting screw for the adjustment of the inductance over a limited inductance range by the user.

The 1531 type inductor is supplied with a threaded magnetic adjusting screw for the adjustment of the inductance over a limited inductance range by the user and a non-magnetic adjusting screw for adjusting the Q.

The 1560 type inductor is supplied with a threaded magnetic core adjusted and sealed by the manufacturer at the fixed value of inductance in the table.

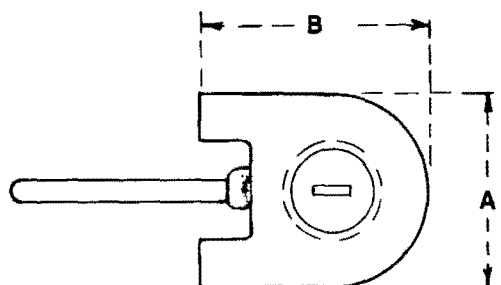
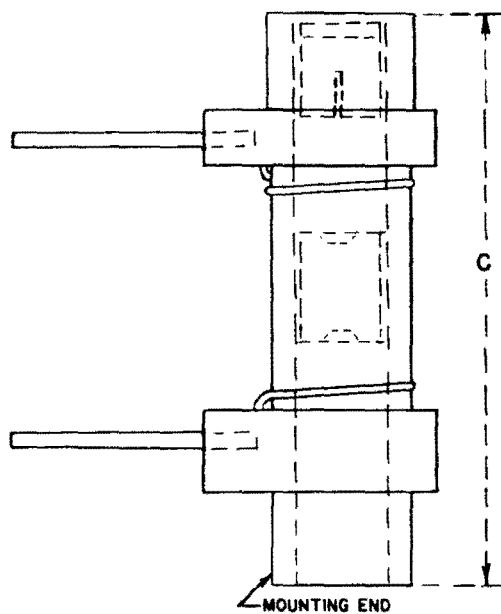
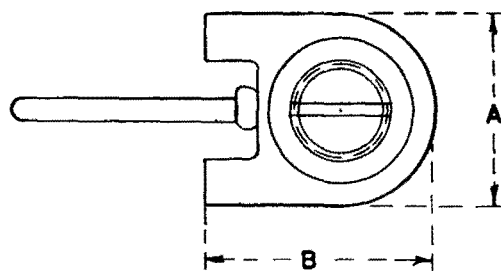
The 1584A inductor is identical to the 1501M inductor except the adjustable magnetic screw is omitted.



1501, 1560, 1584 types

Code	Dimensions (inches) (excluding terminals)			Inductance
	A	B	C	
1501	7/16	17/32	1-1/8	Adjustable
1531	7/16	17/32	1-3/8	Adjustable
1560	7/16	17/32	1-1/8	Fixed
1584	7/16	17/32	1-1/8	Fixed

AIR CORE INDUCTORS



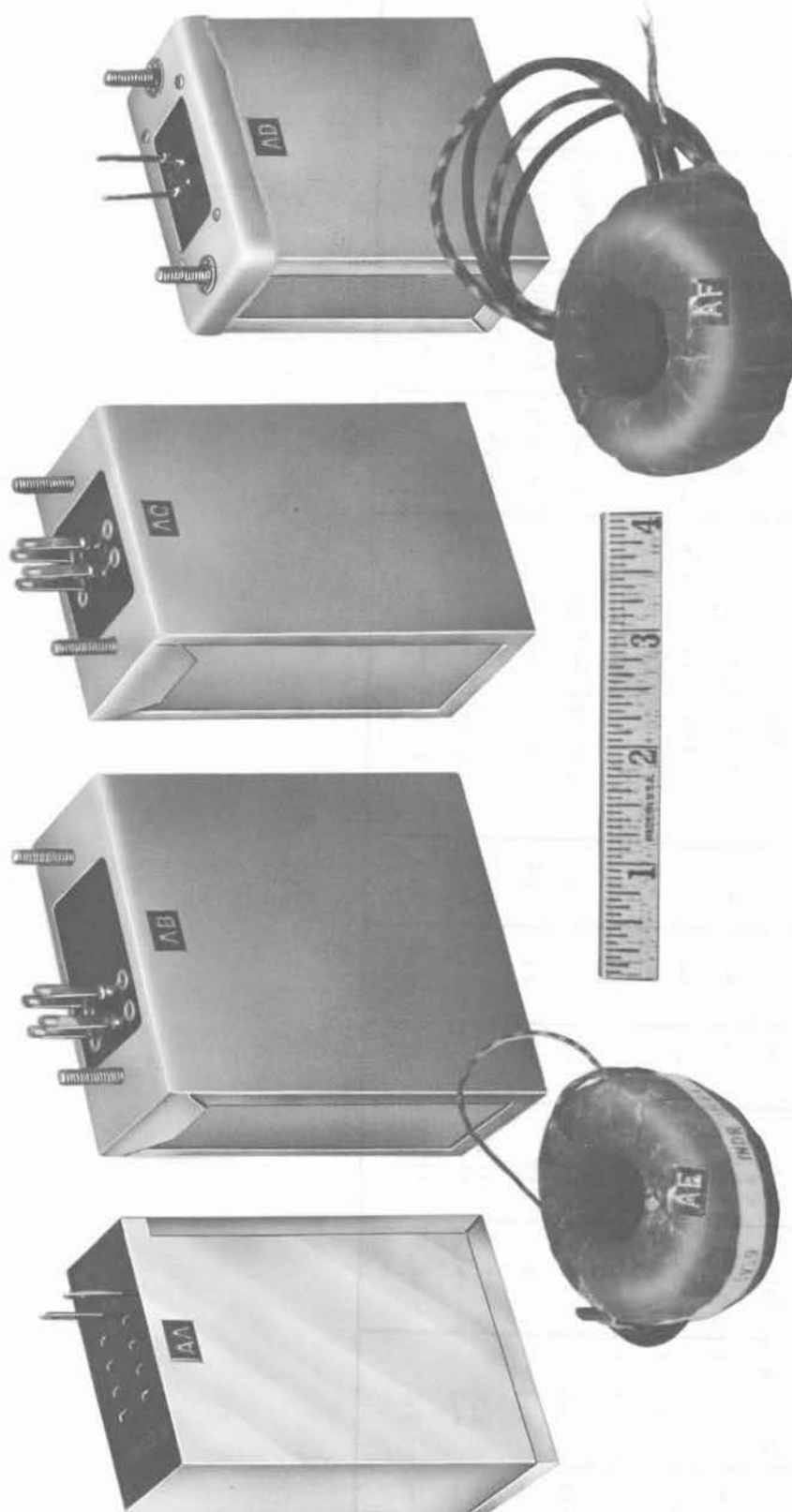
1531 type

1501 TYPE INDUCTORS		
Adjustable Inductance		
<u>Single Layer Winding</u>		
Inductance Adjustment Range Microhenries From To		Code
60.	77	1501 A
50	64	B
42.5	54	C
36	46	D
30	38.5	E
25	32	F
21	27	G
17.5	22.5	H
14.5	18.5	J
12	15.5	K
10	12.8	L
8.4	10.8	M
7.1	9.1	N
6.0	7.7	P
5.0	6.4	R
4.25	5.4	S
3.6	4.6	T
3.0	3.85	U
2.5	3.2	W
2.1	2.7	Y
1.75	2.25	AA
1.45	1.85	AB
1.2	1.55	AC
1.0	1.28	AD
.84	1.08	AE
.71	.91	AF
.60	.77	AG
.50	.64	AH
.425	.54	AJ
.36	.46	AK
.30	.385	AL
.25	.32	AM
.21	.27	AN
.175	.225	AP
.145	.185	AR
.12	.155	AS
.10	.128	AT
.078	.101	AY
.068	.085	BA
.061	.069	BK
.055	.063	BE
.046	.050	BD
.044	.048	BL
.032	.036	BF
.029	.0305	BH
.020	.0215	BG
<u>Duolateral Winding</u>		
4300	5300	1501 BC
1000	1250	AU
145	185	AW
85	110	BJ

1531 TYPE INDUCTORS		
Adjustable Inductance		
<u>Single Layer Winding</u>		
Inductance Adjustment Range Microhenries From To		Code
60	77	1531 A
17.5	22.5	AG
14.5	18.5	B
12	15.5	C
10	12.8	D
8.4	10.8	E
7.1	9.1	F
6.0	7.7	G
5.0	6.4	H
4.25	5.4	J
3.6	4.6	K
3.0	3.85	L
2.5	3.2	M
2.1	2.7	N
1.75	2.25	P
1.45	1.85	R
1.2	1.55	S
1.0	1.28	T
.84	1.08	U
.71	.91	W
.60	.77	Y
.50	.64	AA
.425	.54	AB
.36	.46	AC
.30	.385	AD
.25	.32	AE
.21	.27	AF

1584 TYPE INDUCTORS		
Fixed Inductance		
<u>Single Layer Winding</u>		
Inductance Microhenries Min Max		Code
7.8	8.4	1584A

1560 TYPE INDUCTORS		
Fixed Inductance		
<u>Single Layer Winding</u>		
Inductance Factory Fixed to Value Ordered Between Microhenries Min Max		Code
76.23	77.77	1560 R
62.29	62.91	AM
55.54	56.66	P
52.44	52.96	AN
50.45	50.95	AP
42.87	43.73	N
31.5	32.1	BF
28.06	28.34	M
25.47	25.73	BB
24.06	24.54	L
23.36	23.84	AB
22.37	22.83	K
20.00	20.20	BA
18.51	18.89	AA
16.83	17.17	AL
16.32	16.48	Y
14.63	14.77	AK
13.93	14.07	AY
13.13	13.27	W
12.24	12.36	AW
9.217	9.403	J
8.637	8.723	AU
8.22	8.38	BE
6.776	6.844	AT
6.089	6.151	AS
5.940	6.000	AR
5.71	5.81	BD
5.552	5.608	AJ
5.208	5.312	H
4.930	5.030	AH
4.673	4.767	AG
4.465	4.555	G
4.128	4.212	AF
3.416	3.484	F
3.030	3.090	E
2.911	2.969	D
2.812	2.868	U
2.713	2.767	C
2.53	2.57	BC
1.930	2.010	T
1.090	1.150	S
.520	.580	B
.350	.390	A
.200	.240	AC
.160	.200	AD
.130	.170	AE



June 1962

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POWDER CORE INDUCTORS													
Code	Total ICR		Total Inductance		Effective Resistance		Winding	Dimensions - Inches			Remarks		
	Ohms		Millihenries		Freq Kc	Ohms Max		L	W	H			
	Min	Max	Min	Max									
91A	--	71.5	so	980	1020	.9	100	.9	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	
F	295	400	so	5140	5460	.9	600	.9	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	
G	--	400	so	5200	5600	.9	--	--	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	
261A	--	7 (1-2)&(3-4) (5-6)&(7-8)		12.5	15.5	1.8	--	--	(1-2)(3-4)(5-6)(7-8) pa	3-3/4	2-13/32	3-7/8	
276A	--	9.2		15	17	.9	2.3	.9	(1-2)&(3-4) pa	4-23/32	3-11/32	5-19/32	
B	--	9.3		15	17	.9	2.35	.9	(1-2)&(3-4) pa	4-23/32	3-11/32	5-19/32	
1536A	--	4.6 4.2		12.94 14.23	13.26 14.57	4 4	6.2 5.9	4 4	(1-2) (3-4)(5-6) sa	3-1/4	1-11/16	4-7/16	
B	--	9.2		46.98	48.02	3.5	10.9	3.5	(1-2)(3-4) sa	3-1/4	1-11/16	4-7/16	

pa - parallel aiding

sa - series aiding

so - series opposing

pa - parallel aiding
sa - series aiding
so - series opposing

125 μ INDUCTORS						
Code	Core O.D.	Fig.	Approximate Dimensions (Inches)			Distance Between Mounting Studs (Inches)
			A	B	C	
E1D	1.84"	AA	2-13/32	1-13/32	3-3/8	2-1/4
F1B	2.0"	AF	2-1/4		15/16	
167	2.0"	AB	3-9/32	1-11/16	3-7/16	
231	1.84" & 2.25"	AB	3-9/32	1-11/16	3-7/16	
254	2.0"	AD	2-25/32	1-9/32	2-25/32	
1506	1.84"	AE	2-1/32		1-1/32	
1608	1.84"	AC	2-17/32	1-11/16	3-7/16	
1596	1.84"	--				
All the above inductors are toroidal types wound on molybdenum permalloy powder cores. Most of the inductors are intended for use in apparatus assemblies not subject to repair in the field.						

Nominal Performance Data

Frequency range: 10 cps to 10 kc

Types of windings: Single or balanced

Inductance unbalance between windings: $\pm 1\%$ max

Coupling between windings: 88%

Inductance range: (Series aiding) 0.05 to 18.0 henries (See Note 1)

Initial inductance adjustment: $\pm 1\%$ (See Note 2)

DC Resistance: 50 ohms per henry

Distributed Capacitance: 200 to 300 mmf

Flux density: $B_m = 38 \sqrt{L I}$ (H MA) (See Note 3)

Max recommended AC + DC voltage: 200

Max recommended power dissipation: 3 watts

Change of inductance with temperature: + 100 to -30 PPM per $^{\circ}\text{F}$

Q, Modulation, Superposed DC: (See characteristics)

Note 1 Inductance values on existing codes are shown on table. Preferred values for new codes are those corresponding to full wound coils with successive wire gauges:

0.10 (henry)	0.85	7.20
0.15	1.30	8.00
0.24	2.00	12.00
0.35	3.10	18.00
0.55	4.60	

Note 2 At specified test frequency and 2 ma. for inductances up to .3 henry and 3 volts for inductances over .3 henry.

Note 3 At flux densities over about 1000 the inductance drops rapidly with increasing flux.

Note 4 The above data applies to the 1.84" core ring and is approximately correct for all except for the DC Resistance, Distributed Capacitance, Flux Density and Note 1.

231 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
12930	13460	(1-2)	.2	520	231S
8160	8840	(1-2)(3-4) sa	.06	400 so	E
6440	6560	(1-2)	.9	295	R
5050	5150	(1-3)	.2	205	P
3320	3680	(1-2)	.9	105	D
1760	2240	(1-2)	.9	86	T
475	525	(1-2)(3-4) sa	1	10.4	L
230	240	(1-2)	.9	8.8	J
130	140	(1-2)	1.8	4	F
46.5	47.5	(1-3)	1	1.29	U
40	44	(1,3,5&7-2,4,6&8) pa	1.8	23.2	A
39	43	(1,3-2,4) pa	1.8	6.1 so	G
26.0	27.2	(1-2)(3-4) sa	1.8	1 so	B
24	26	(1,3,5&7-2,4,6&8) pa	1.8	34	M
24	26	(1-2)(3-4) pa	1.8	7 so	N
13.5	13.7	(1-2)(3-4) pa	1.8	4 so	C
5.88	6.12	(1-2)	1	.8	H
278.6	281.4	(1-6)	2.8	12	231K
4.2	5.2	(1-5)			
2.4	3.0	(1-4)			
1.13	1.39	(1-3)			
.29	.35	(1-2)			

254 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1485	1515	(1-2)(3-4)	.9	48	254B
490	510	(1-2)	.9	16	A
20.05	20.45	(1-2)(3-4)	3	1.3	D
8.593	8.767	(1-2)(3-4)	3	.9	C

1506 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
10400	10800	(1-3)	.2	595	1506A

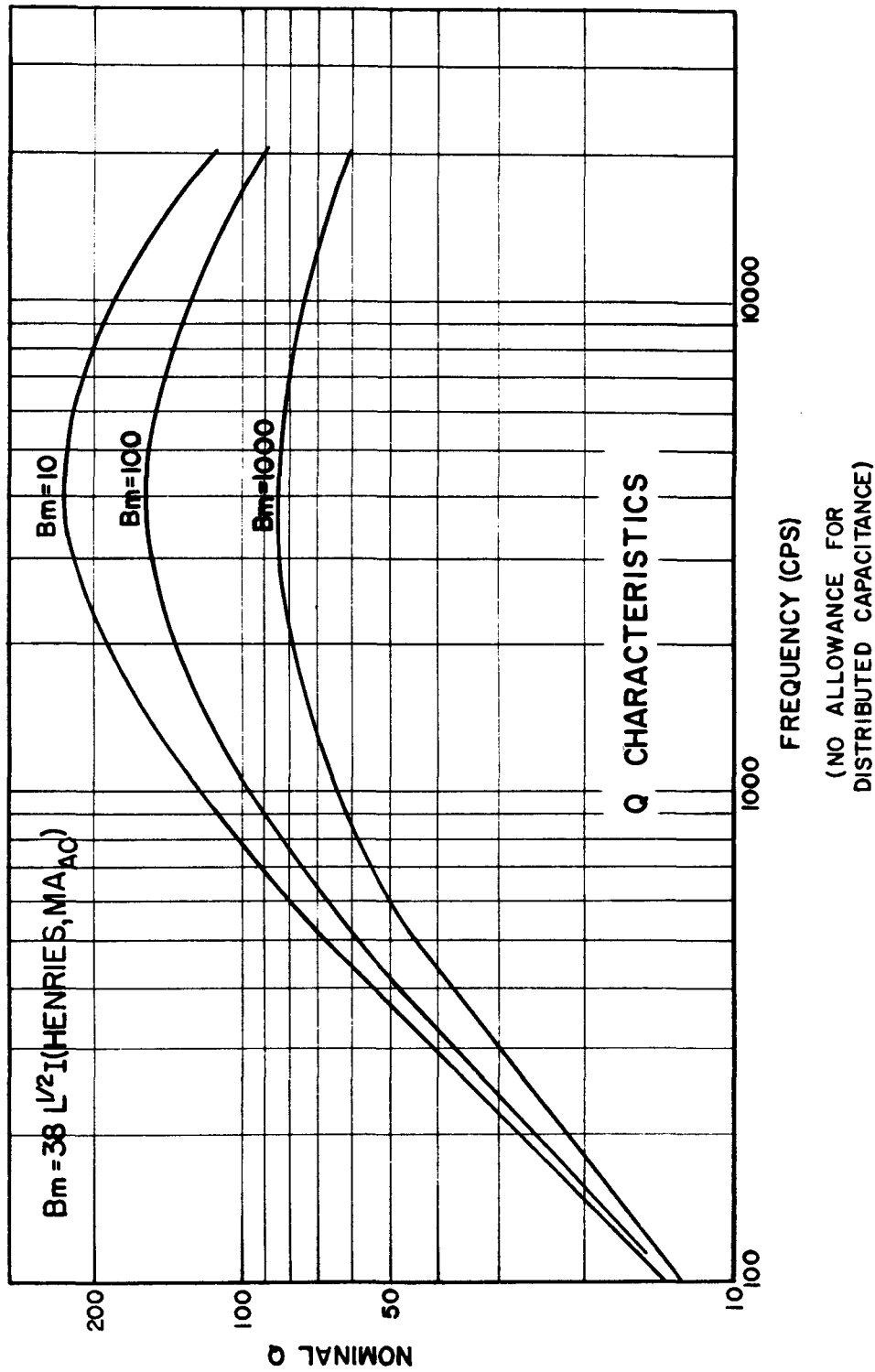
1608 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
98	102	(1-2)(3-4) sa	.9	3.47	1608A

pa - Parallel Aiding
sa - Series Aiding
so - Series Opposing

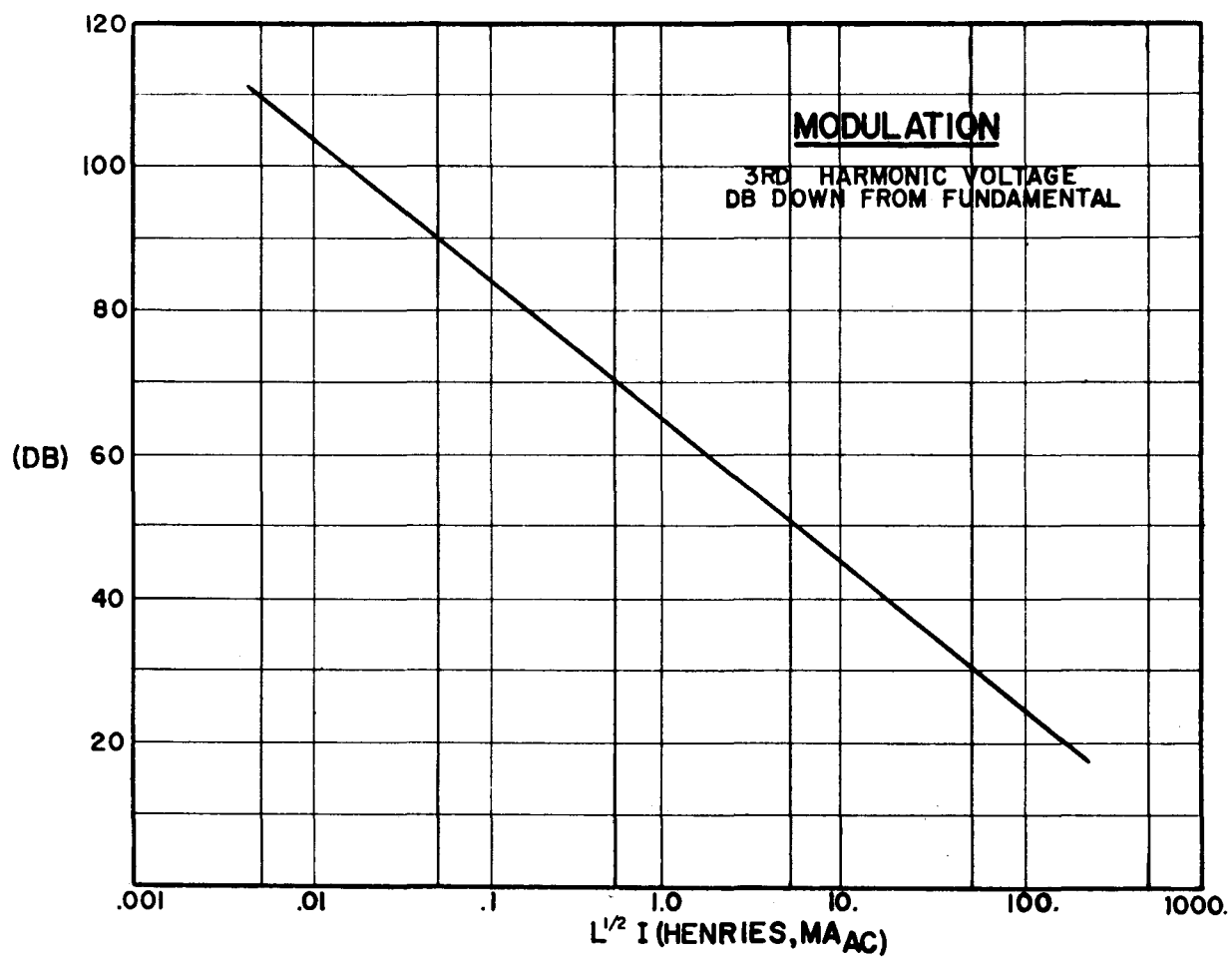
E1D TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
17940	18660	(1-2)	.9	600	E1D16
11870	12130	(1-2)(3-4) sa		648	30
5950	6010	(1-2)(3-4) sa	.4	260	28
3960	4040	(1-2)(3-4) sa	.2	175	17
3487	3557	(1-2)	.7	360	5
2570	2630	(1-2)		119	29
2106	2148	(1-2)	.9	175	6
1409	1437	(1-2)	1.2	90	7
1052	1072	(1-2)	.9	120	1
1052	1072	(1-2)	1.2	96	2
1052	1072	(1-2)	1.5	78	3
1052	1072	(1-2)	1.8	62	4
1008	1028	(1-2)	1.2	61	8
757	772	(1-2)	1.5	31	9
648.5	661.6	(1-2)	.9	28.5	32
589	601	(1-2)	1.8	16	10
206.9	211.1	(1-2)	.9	8.2	31
108.5	109.2	(1-2)(3-4) pa	1.2	14.5	12
95.6	96.6	(1-2)(3-4) pa	1.5	13.8	14
75.63	77.15	(1-2)	3	3.04	22
60.51	61.73	(1-2)	3	2.65	25
60.02	61.24	(1-2)	3	2.7	27
58	59.2	(1-2)(3-4) sa	1.2	3.15	11
42.9	43.7	(1-2)(3-4) sa	1.5	2.9	13
35.45	36.17	(1-2)	3.25	1.65	19
29.56	30.16	(1-2)	3.25	1.46	21
28.57	29.15	(1-2)	3	1.43	24
22.97	23.43	(1-2)	3.25	1.03	20
20.77	21.19	(1-2)	3	.96	23
17.94	18.30	(1-2)	3	.78	26
7.31	7.46	(1-2)	6	.37	18
1.51	1.54	(1-2)(3-4) sa	8	.12	15
F1B TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
3079	3141	(1-2)	.9	123.25	F1B4
396	404	(1-2)	.9	25.5	3
242.5	257.5	(1-2)	1.8	11.39	1
172.7	176.3	(1-2)	1.8	10.63	2
167 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
5880	6120	(1-2)(3-4)	.9	448.8	167C
5500	6300	(1-2)(3-4)	.9	438.6	B
2700	3100	(1-2)(3-4)	.9	187	A
1118	1130	(1-6)	.7	32	G
885.2	894.0	(1-6)	.9	28	H
765	781	(1-2)(3-4)	.9	40.8	D
680.9	687.6	(1-6)	1.1	21	J
592.8	598.8	(1-6)	1.3	19	K
503.2	508.2	(1-6)	1.5	14.5	L
436.6	441.0	(1-6)	1.7	13.3	M
245	255	(1-2)(3-4)	1.8	18.7	F

pa - Parallel Aiding
sa - Series Aiding

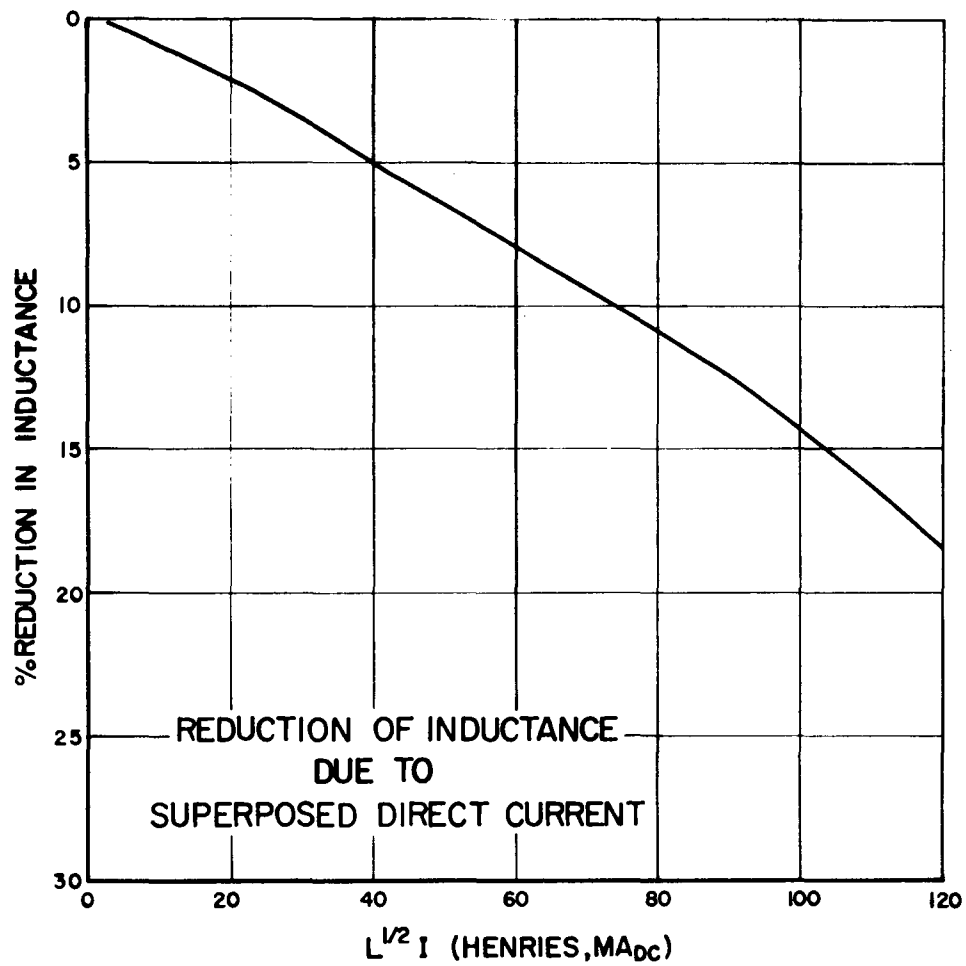
PERMALLOY POWDER CORE
125u 1.84" & 2.0" Cores



PERMALLOY POWDER CORE
125u 1.84" & 2.0" Cores



PERMALLOY POWDER CORE
125u 1.84" & 2.0" Cores



125 u

The 1596A inductor is a fixed toroidal-type inductor wound on a permalloy powder core having a permeability of 125, and is potted with microcrystalline wax in a plastic case. This inductor is provided with flexible wire leads and can be stacked with other 1596-type inductors.

This inductor is a family type; that is, it may be ordered in any inductance value from 0.0600 henry through 25.5 henries by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values is ± 2 per cent. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.060 henry or 0.240 henry.

INTENDED USE

The 1596A inductor is intended for use as a general purpose inductor.

ELECTRICAL DATA

Electrical data for the various inductance values in which the 1596A inductor may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance change with temperature is nominally about 1 per cent per 100° F.

The characteristics shown in Fig. 1, 2, and 3 are determined when the inductor is tested between leads red and blue-white with lead red-white connected to lead blue.

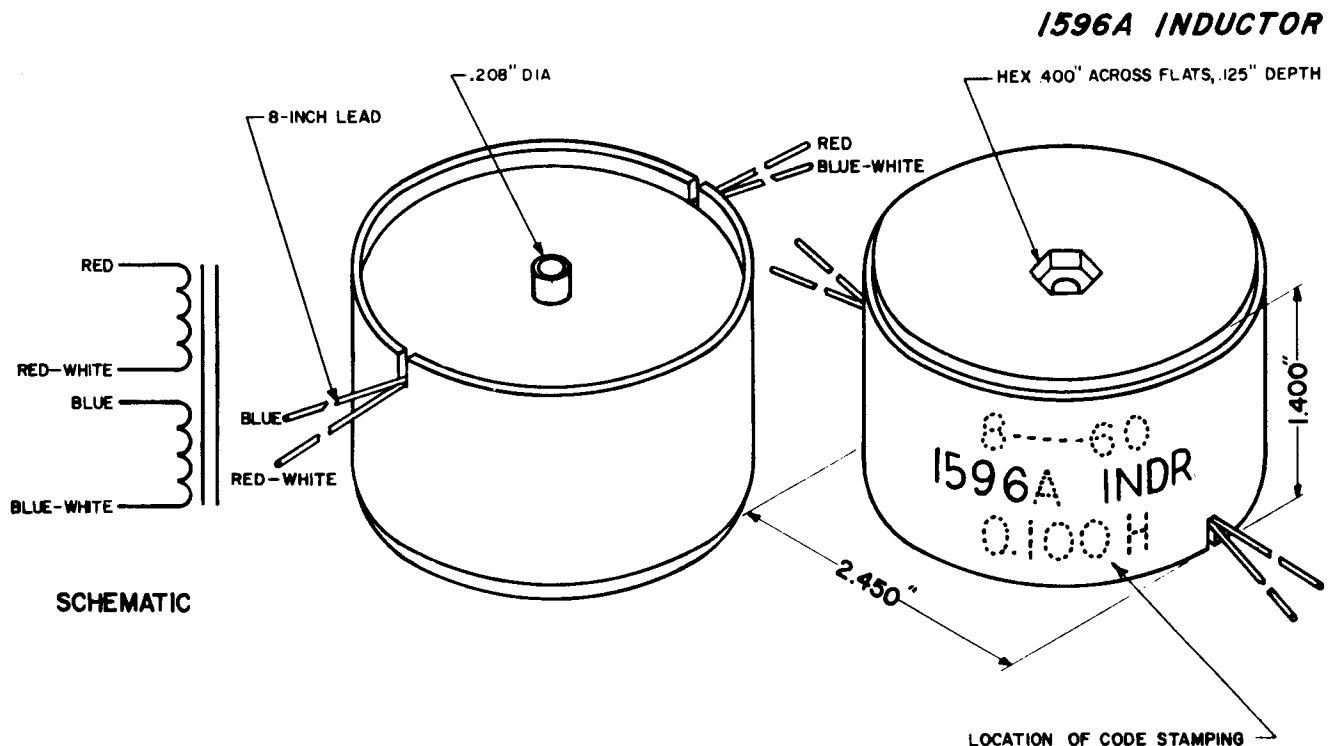
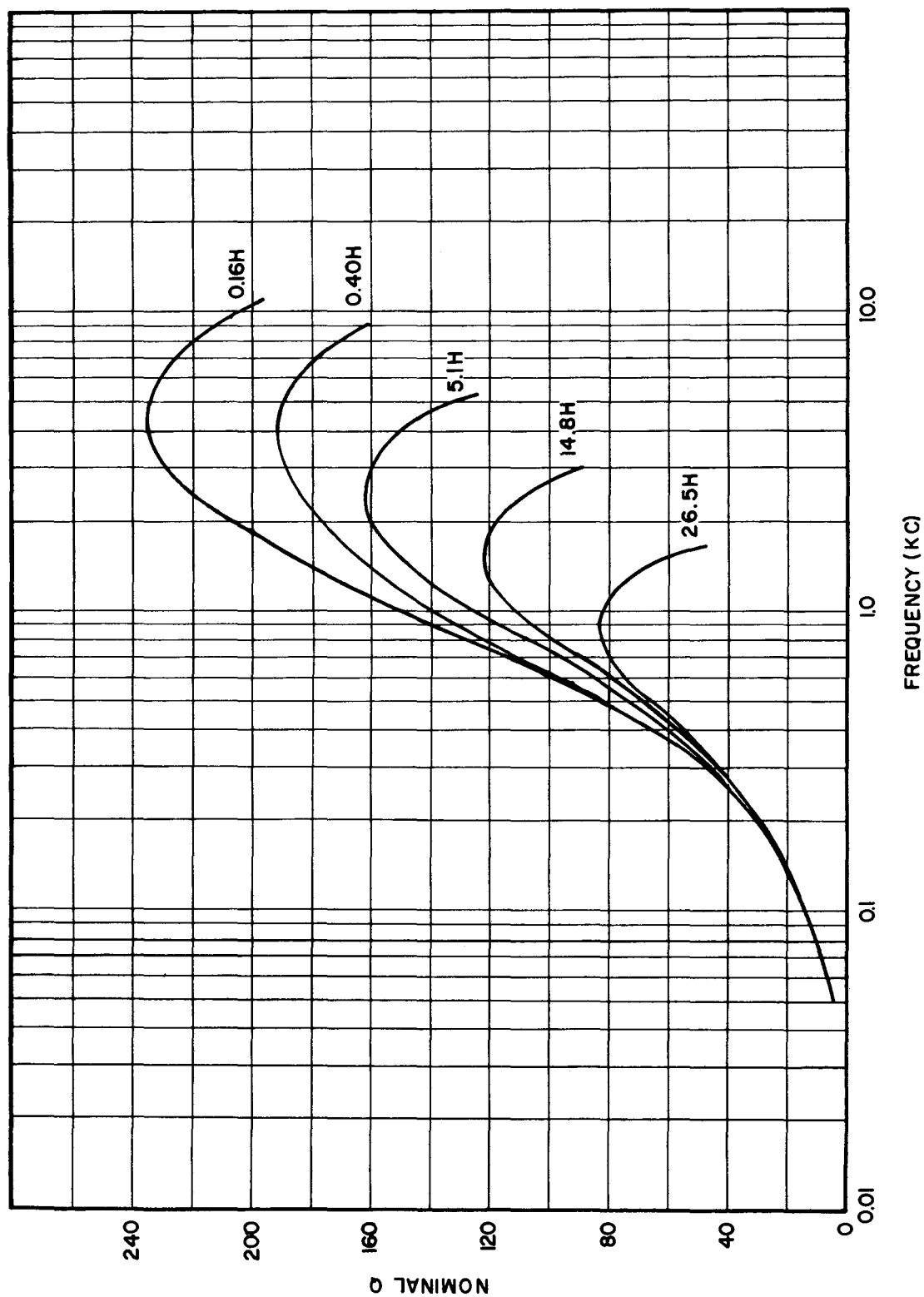


TABLE A - ELECTRICAL DATA					
Inductance**				Approx DC Res+	Maximum Inductance Unbalance#
Nominal at Test Freq	Test Freq	Test Current	Test Voltage		
henries	cps	amp ac	v ac	ohms	per cent
0.100	900	0.002		4.08	1
0.160	900	0.002		6.50	1
0.240	900	0.002		10.24	1
0.400	900	0.002		16.39	1
0.620	900	0.002		25.88	1
0.950	900		3	40.8	1
1.50	900		3	64.4	1
2.00	900		3	98.9	1
3.20	200		3	147	1
5.10	200		3	236	1
8.30	200		3	385	1
13.20	200		3	598	1
19.3	200		3	932	1
25.5	200		3	1322	1

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests made between the red and blue-white leads with the red-white lead connected to the blue lead.

These values apply between leads (red - red-white) and (blue - blue-white) at 900 cps.



Note: The Q-versus-frequency characteristic of an inductor is a function of the inductance value due to the effects of distributed capacitance and incremental core losses which may vary over a considerable range. The Q values shown are typical Q values but do not represent minimum Q.

FIG. 1 - Nominal Q Versus Frequency

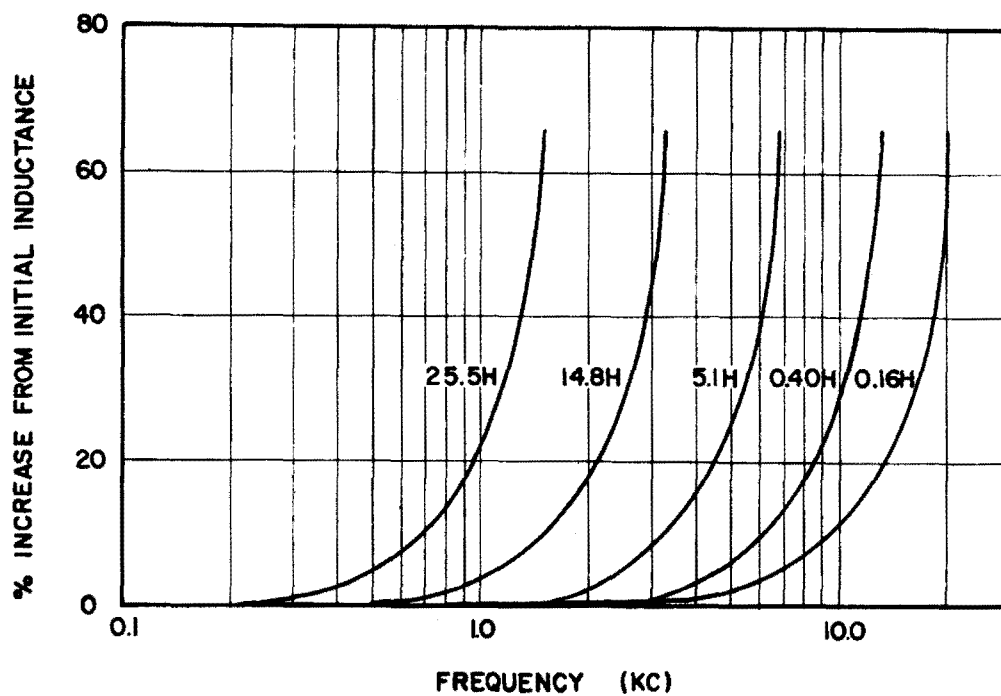


FIG. 2 - Per Cent Increase In Inductance With Frequency

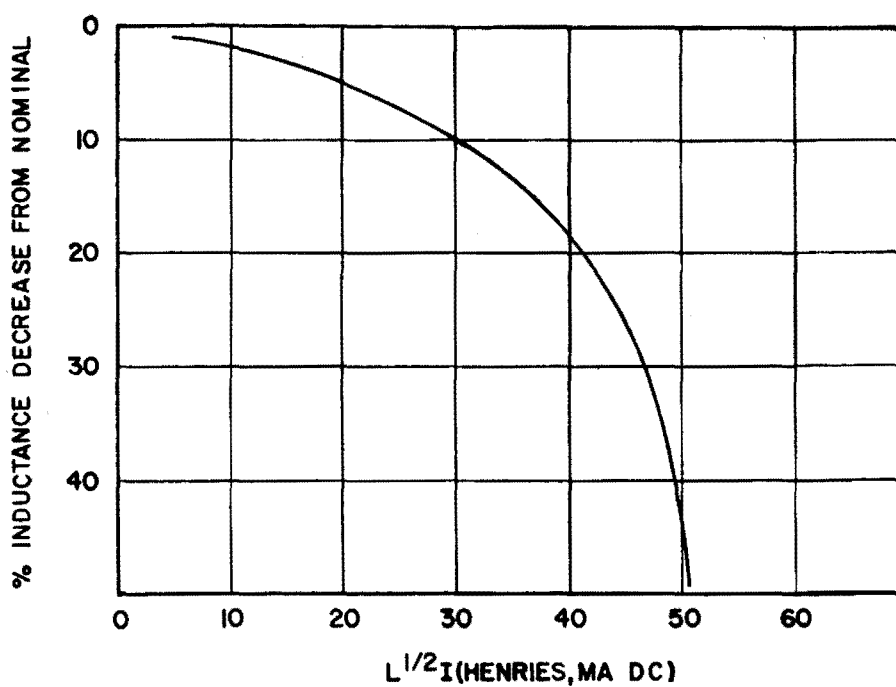
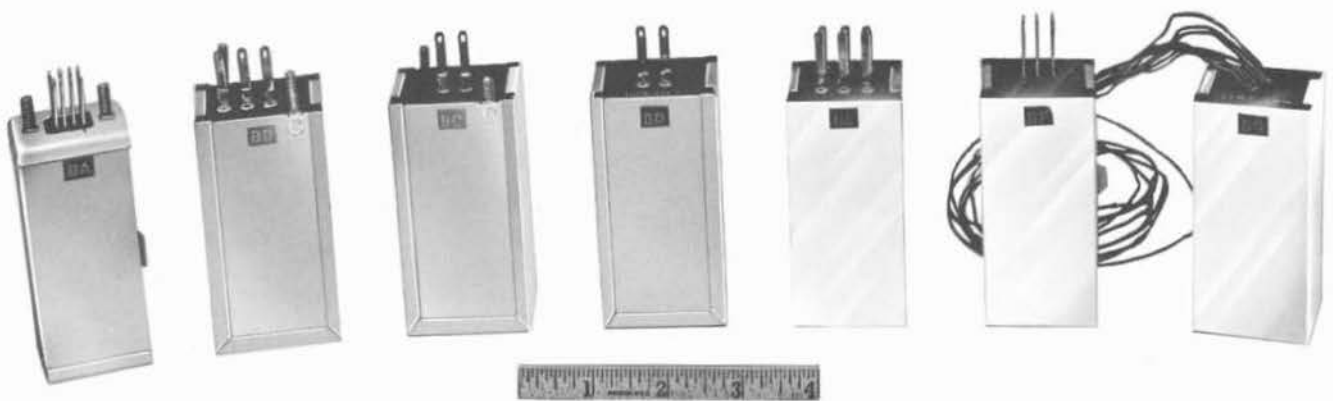
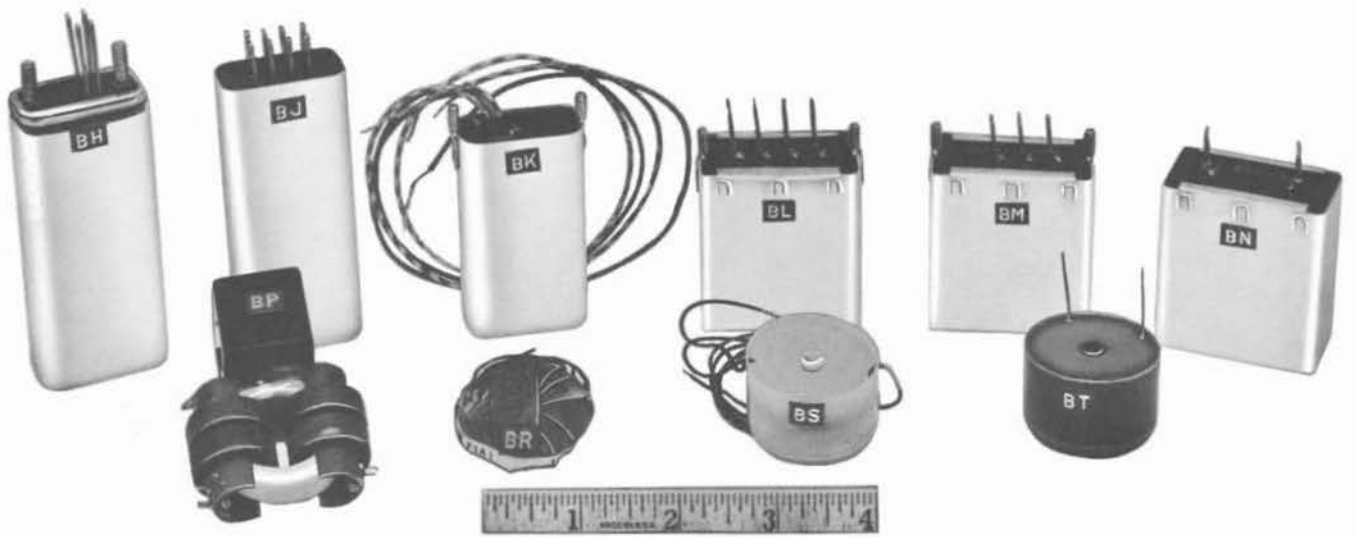


FIG. 3 - Reduction in Inductance Due to Superposed Direct Current



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III-12a

125 μ INDUCTORS						
Code	Core O.D.	Fig.	Approximate Dimensions (Inches)			Distance Between Mounting Studs (Inches)
			A	B	C	
E1A	1.06"	BN	1-13/16	1-1/32	2-1/32	1-45/64
E1E	1.06"	BJ	1-13/32	25/32	3-7/16	
E1G	1.35"	BL	1-7/8	1-1/32	2	
F1A	1.06"	BR	1-3/4		3/4	
J1B	1.35"	BP	1-15/16	1-1/2	2-7/16	1/2
K1A	1.35"	BD	1-47/64	1-13/32	3-15/32	1
182	1.06"	BH	1-13/32	25/32	3-7/16	
251	1.35"	BA	1-1/2	1-9/32	3-15/32	
279	1.35"	BB	1-23/32	1-13/32	3-15/32	
293	1.06"	BH	1-13/32	25/32	3-7/16	1
321	1.06"	BK	1-3/4	25/32	2-1/2	1-29/64
1508	1.35"	BC	1-23/32	1-13/32	3-15/32	1
1511	1.35"	BE	1-9/16	1-13/32	3-3/8	1-45/64
1512	1.35"	BE	1-9/16	1-13/32	3-3/8	
1537	1.06"	BF	1-9/16	1-7/16	3-3/8	
1538	1.35"	BG	1-9/16	1-7/16	3-3/8	
1539	1.06"	BM	1-7/8	1-1/32	2-1/32	1-45/64
1572	1.06"	BS	1-7/16		15/16	
1578	1.06"	BT	1-15/32		15/16	
1587	1.06"	--				
1595	1.06"	--				

All the above inductors are toroidal types wound on molybdenum permalloy powder cores. Most of the inductors are intended for use in apparatus assemblies not subject to repair in the field.

Each E1E or 293 type coil may contain one or two separate coils, either balanced or single winding, with individual external terminals for each.

125 μ INDUCTORS

Nominal Performance Data

Frequency range: 100 to 20,000 cps

Types of windings: Single or balanced

Inductance unbalance between windings: Normally not over 1%

Coupling between windings: 88% approx.

Inductance range: .005 to 10.5 henries (See Note 1)

Initial inductance adjustment: $\pm 1\%$ (See Note 2)

DC Resistance: 100 to 150 ohms per henry

Distributed Capacitance: 60 to 90 mmf

Flux density: $B_m = 85\sqrt{L I}$ (H MA) (See Note 3)

Max recommended AC + DC voltage: 200

Max recommended power dissipation: 1 watt

Change of inductance with temperature: +100 to -30 PPM per $^{\circ}\text{F}$

Q, Modulation, Superposed DC: (See Characteristics)

Note 1 Inductance values on existing codes are shown on table. Preferred values for new codes are those corresponding to full wound coils with successive wire gauges:

0.0211 (henry)	0.181	1.51
0.0291	0.261	2.27
0.0483	0.414	3.51
0.0758	0.651	6.02
0.121	1.08	10.5

Note 2 At specified test frequency and 2 ma. for inductances up to .3 henry and 3 volts for inductances over .3 henry.

Note 3 At flux densities over about 1000 the inductance drops rapidly with increasing flux.

Note 4 The above data applies to the 1.06" core ring and is approximately correct for all except for the Inductance range, Initial inductance adjustment, Flux Density and Note 1.

E1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1418	1432	(1-2)	.5	238.0	E1A39
1377	1391	(1-2)	.5	231.2	40
1357	1371	(1-2)	.9	231.2	41
1357	1371	(1-2)	1.5	231.2	42
1357	1371	(1-2)	2.0	231.2	43
1357	1371	(1-2)	2.5	231.2	44
1357	1371	(1-2)	3.0	231.2	45
1357	1371	(1-2)	3.0	229.5	46
1319	1334	(1-2)	1.8	185.3	17
1174	1186	(1-2)	3.0	182.75	20
1114	1126	(1-2)	.5	192.1	47
993	1003	(1-2)	.5	188.7	48
964.2	973.8	(1-2)	.9	185.3	49
950.2	959.8	(1-2)	1.5	185.3	50
950.2	959.8	(1-2)	2.0	185.3	51
950.2	959.8	(1-2)	2.5	185.3	52
950.2	959.8	(1-2)	3.0	185.3	53
923.4	932.6	(1-2)	3.0	182.75	54
748.1	755.9	(1-2)	.5	98.6	21
742.3	749.7	(1-2)	1.2	98.6	22
742.3	749.7	(1-2)	.5	98.6	23
730.3	737.7	(1-2)	1.8	83.3	24
719.4	726.6	(1-2)	2.5	82.45	25
709.5	716.5	(1-2)	.5	151.3	55
706.4	713.6	(1-2)	.5	81.6	26
701.5	708.5	(1-2)	1.8	81.6	27
698.5	705.5	(1-2)	3.0	81.6	28
698.0	705.0	(1-2)	1.5	81.6	29
695.5	702.5	(1-2)	.5	151.3	56
694.0	701.0	(1-2)	1.5	81.6	30
693.5	700.5	(1-2)	2.5	81.6	31
688.0	695.0	(1-2)	.5	151.3	57
686.5	693.5	(1-2)	.9	81.6	32
679.6	686.4	(1-2)	3.0	79.9	33
678.6	685.4	(1-2)	.9	79.9	34
678.6	685.4	(1-2)	.9	148.75	58
678.6	685.4	(1-2)	1.5	148.75	59
678.6	685.4	(1-2)	2.0	148.75	60
678.6	685.4	(1-2)	2.5	100.3	61
678.6	685.4	(1-2)	3.0	148.75	62
672.6	679.4	(1-2)	3.0	79.9	35
668.6	675.4	(1-2)	.5	79.05	36
660.7	667.3	(1-2)	.5	78.2	37
658.7	665.3	(1-2)	3.0	97.75	63
656.7	663.3	(1-2)	.5	97.75	64
656.7	663.3	(1-2)	3.0	97.75	65
655.7	662.3	(1-2)	2.5	146.2	66
653.7	660.3	(1-2)	2.5	78.2	38
653.2	659.8	(1-2)	2.5	146.2	67
649.7	656.3	(1-2)	2.0	146.2	68
645.8	652.2	(1-2)	1.8	146.2	69
641.3	647.7	(1-2)	1.5	146.2	70
639.8	646.2	(1-2)	3.0	97.75	71
635.8	642.2	(1-2)	1.5	146.2	72
630.8	637.2	(1-2)	1.0	141.95	73
624.9	631.1	(1-2)	.9	178.5	74
618.4	624.6	(1-2)	.9	176.8	75
364.2	367.8	(1-2)	.5	78.2	76
345.5	349.0	(1-2)(3-4)	1.8	37.4	4
144.7	146.1	(1-2)(3-4)	1.8	17.34	5
137.8	139.2	(1-2)(3-4)	1.8	14.2	14
135.7	137.1	(1-2)(3-4)	1.8	14.2	3
111.0	112.2	(1-2)(3-4)	1.8	12.24	13
104.5	105.6	(1-2)(3-4)	1.8	11.9	11
102.1	103.1	(1-2)(3-4)	1.8	11.9	12

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E1A TYPE INDUCTORS

Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
79.03	79.83	(1-2)(3-4)	1.8	6.89	E1A 6
65.13	65.79	(1-2)(3-4)	1.8	5.1	15
52.96	54.04	(1-2)(3-4)	3.0	4.59	77
49.71	50.21	(1-2)(3-4)	1.8	3.66	7
32.42	33.08	(1-2)(3-4)	3.0	2.86	78
32.26	32.58	(1-2)(3-4)	1.8	2.81	8
27.66	27.94	(1-2)(3-4)	1.8	2.55	82
24.78	25.02	(1-2)(3-4)	1.8	2.35	87
24.78	25.02	(1-2)(3-4)	1.8	2.35	88
24.48	24.72	(1-2)(3-4)	1.8	2.35	83
24.48	24.72	(1-2)(3-4)	1.8	2.35	84
23.14	23.38	(1-2)(3-4)	1.8	2.25	9
21.59	21.81	(1-2)(3-4)	1.8	2.18	85
21.59	21.81	(1-2)(3-4)	1.8	2.18	86
18.36	18.64	(1-2)	1.8	1.63	91
17.07	17.33	(1-2)	1.8	1.56	89
16.43	16.59	(1-2)(3-4)	1.8	1.56	10
15.53	15.85	(1-2)(3-4)	3.0	1.5	79
10.27	10.47	(1-2)	3.0	.98	81
6.28	6.39	(1-2)	1.8	.92	92
3.168	3.232	(1-2)	1.8	.34	90
2.542	2.574	(1-2)	1.8	.43	16

E1E TYPE INDUCTORS									
Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Test Freq Kc	Code
11140	11360	(1-2)	1207	--	--	--	--	.5	E1E 78
10910	11130	(1-2)	1200	8060	8220	(3-4)	1020	1.2 (1-2)	102
								1.8 (3-4)	
10450	10550	(3-4)	1130.4	9840	9936	(1-2)	1100	1.0	264
10080	10280	(1-2)	1100	--	--	--	--	.9	101
9840	9936	(1-2)	1100	10450	10550	(3-4)	1130.4	1.0	264
8060	8220	(3-4)	1020	10910	11130	(1-2)	1200	1.2 (1-2)	102
								1.8 (3-4)	
7275	7347	(3-4)	960	1653	1669	(1-2)	230	.6	133
7275	7347	(3-4)	960	826.3	834.5	(1-2)	96	.6	132
4388	4432	(3-4)	580	1653	1669	(1-2)	230	.6	135
4388	4432	(3-4)	580	826.3	834.5	(1-2)	96	.6	134
3504	3540	(1-2)	400	1056	1066	(3-4)	135	.7	107
3090	3120	(3-4)	387	2021	2041	(1-2)	245	.7	87
3079	3141	(1-2)(3-4)	391	7.50	7.66	(5-6)(7-8)	2.2	1.8	276
2933	2961	(3-4)	382	1653	1669	(1-2)	230	.9	137
2933	2961	(3-4)	382	826.3	834.5	(1-2)	96	.9	136
2860	2920	(1-2)	378	585	597	(3-4)	66	.9	77
2116	2138	(1-2)	245	1056	1066	(3-4)	135	.9	108
2097	2117	(3-4)	244	1653	1669	(1-2)	230	.9	139
2097	2117	(3-4)	244	826.3	834.5	(1-2)	96	.9	138
2021	2041	(1-2)	245	3090	3120	(3-4)	387	.7	87
2020	2040	(1-2)	245	1866	1892	(3-4)	232	.9	88
2019	2039	(1-2)	245	1251	1263	(3-4)	147	1.1	89
2018	2038	(1-2)	245	897	906	(3-4)	97	1.3	90
2017	2037	(1-2)	245	673.2	680.0	(3-4)	70	1.5	91
2017	2037	(1-2)	245	524.8	530	(3-4)	61	1.7	92
2016	2036	(1-2)	245	420.0	424.2	(3-4)	43	1.9	93
2016	2036	(1-2)	245	344.2	347.6	(3-4)	39	2.1	94
1866	1892	(3-4)	232	2020	2040	(1-2)	245	.9	88
1653	1669	(1-2)	230	1224	1236	(3-4)	148	1.2	143
1653	1669	(1-2)	230	1574	1588	(3-4)	217	1.2	141
1653	1669	(1-2)	230	2097	2117	(3-4)	244	.9	139
1653	1669	(1-2)	230	2933	2961	(3-4)	382	.9	137
1653	1669	(1-2)	230	4388	4432	(3-4)	580	.6	135
1653	1669	(1-2)	230	7275	7347	(3-4)	960	.6	133
1574	1588	(3-4)	217	1653	1669	(1-2)	230	1.2	141
1574	1588	(3-4)	217	826.3	834.5	(1-2)	96	1.2	140
1540	1570	(1-2)(3-4)	225.3	3.83	3.95	(5-6)(7-8)	1.3	.9 (1-4)	277
								1.8 (5-8)	
1435	1449	(1-2)	219.3	--	--	--	--	1.7	30
1418	1432	(1-2)	238	656.7	663.3	(3-4)	97.8	.5	236
1416	1430	(1-2)	160	1056	1066	(3-4)	135	1.1	109
1377	1391	(1-2)	231.2	618.4	624.6	(3-4)	176.8	.5 (1-2)	250
								.9 (3-4)	
1377	1391	(1-2)	231.2	364.2	367.8	(3-4)	78.2	.5	239
1357	1371	(1-2)	231.2	655.7	662.3	(3-4)	146.2	2.5	226
1357	1371	(1-2)	231.2	653.2	659.8	(3-4)	185.3	2.5	223
1357	1371	(1-2)	231.2	656.7	663.3	(3-4)	97.8	3.0	228
1357	1371	(1-2)	231.2	658.7	665.3	(3-4)	97.8	3.0	231
1357	1371	(1-2)	231.2	635.8	642.2	(3-4)	146.2	1.5	242
1357	1371	(1-2)	231.2	649.7	656.3	(3-4)	146.2	2.0	245
1357	1371	(1-2)	231.2	653.2	659.8	(3-4)	146.2	2.0 (1-2)	248
								2.5 (3-4)	
1357	1371	(1-2)	231.2	618.4	624.6	(3-4)	176.8	.9	252
1357	1371	(1-2)	231.2	624.9	631.1	(3-4)	178.5	.9	254
1357	1371	(1-2)	231.2	630.8	637.2	(3-4)	142.0	.9 (1-2)	256
								1.0 (3-4)	
1357	1371	(1-2)	231.2	641.3	647.7	(3-4)	146.2	1.5	258
1357	1371	(1-2)	231.2	645.8	652.2	(3-4)	146.2	2.0 (1-2)	260
								1.8 (3-4)	
1319	1334	(1-2)	229.5	639.8	646.2	(3-4)	97.8	3.0	233
1280	1292	(1-2)	157.4	500	505	(3-4)	59.1	1.0	265
1273	1299	(1-2)(3-4)	207.4	82.9	84.5	(5-6)	10.12	.3	27

E1E TYPE INDUCTORS

Inductance Millihenries		Winding	Approx DCR Ohms	Inductance Millihenries		Winding	Approx DCR Ohms	Test Freq Kc	Code
Min	Max			Min	Max				
1267	1279	(1-2)	148	254.2	256.6	(3-4)	27	.6	E1E126
1267	1279	(1-2)	148	153.4	154.8	(3-4)	16.5	.6	127
1267	1279	(1-2)	148	102.5	103.5	(3-4)	11.3	.9	128
1267	1279	(1-2)	148	73	74	(3-4)	7.8	.9	129
1267	1279	(1-2)	148	55.0	55.5	(3-4)	6.5	1.2	130
1267	1279	(1-2)	148	42.8	43.2	(3-4)	4.8	1.2	131
1251	1263	(3-4)	147	2019	2039	(1-2)	145	1.1	89
1224	1236	(3-4)	148	826.3	834.5	(1-2)	96	1.2	142
1224	1236	(3-4)	148	1653	1669	(1-2)	230	1.2	143
1174	1186	(1-2)	185.3	730.3	737.7	(3-4)	83.3	1.8	211
1114	1126	(1-2)	182.8	719.4	726.6	(3-4)	82.5	3.0	212
1114	1126	(1-2)	182.8	679.6	686.4	(3-4)	79.9	3.0	214
1114	1126	(1-2)	182.8	693.5	700.5	(3-4)	81.6	3.0	216
1114	1126	(1-2)	182.8	698.5	705.5	(3-4)	81.6	3.0	218
1066	1078	(1-2)	138	390	394	(3-4)	39	1.0	185
1056	1066	(3-4)	135	3504	3540	(1-2)	400	.7	107
1056	1066	(3-4)	135	2116	2138	(1-2)	245	.9	108
1056	1066	(3-4)	135	1416	1430	(1-2)	160	1.1	109
1056	1066	(3-4)	135	1013	1023	(1-2)	132	1.3	110
1056	1066	(3-4)	135	761	769	(1-2)	85	1.5	111
1056	1066	(3-4)	135	592	598	(1-2)	65	1.7	112
1013	1023	(1-2)	132	1056	1066	(3-4)	135	1.3	110
1010	1030	(2-6)(5-1)	138	4.835	4.933	(2-8)(7-1)	1.07	1.0	334
993	1003	(1-2)	192.1	695.5	702.5	(3-4)	151.3	.5	235
964.2	973.8	(1-2)	188.7	364.2	367.8	(3-4)	78.2	.5	238
964.2	973.8	(1-2)	188.7	618.4	624.6	(3-4)	176.8	.5 (1-2)	249
955	965	(1-2)	102	955	965	(3-4)	102	1.0	113
950.2	959.8	(1-2)	185.3	653.2	659.8	(3-4)	146.2	2.5	222
950.2	959.8	(1-2)	146.2	655.7	662.3	(3-4)	146.2	2.5	225
950.2	959.8	(1-2)	185.3	656.7	663.3	(3-4)	97.8	3.0	227
950.2	959.8	(1-2)	185.3	658.7	665.3	(3-4)	97.8	3.0	230
950.2	959.8	(1-2)	185.3	635.8	642.2	(3-4)	146.2	1.5	241
950.2	959.8	(1-2)	185.3	649.7	656.3	(3-4)	146.2	2.0	244
950.2	959.8	(1-2)	185.3	653.2	659.8	(3-4)	146.2	2.0 (1-2)	247
								2.5 (3-4)	
950.2	959.8	(1-2)	185.3	618.4	624.6	(3-4)	176.8	.9	251
950.2	959.8	(1-2)	185.3	624.9	631.1	(3-4)	178.5	.9	253
950.2	959.8	(1-2)	185.3	630.8	637.2	(3-4)	142	.9 (1-2)	255
								1.0 (3-4)	
950.2	959.8	(1-2)	185.3	641.3	647.7	(3-4)	146.2	1.5	257
950.2	959.8	(1-2)	185.3	645.8	652.2	(3-4)	146.2	2.0 (1-2)	259
								1.8 (3-4)	
936	955	(1-2)	105.2	--	--	--	--	.9	266
923.4	932.6	(1-2)	182.8	639.8	646.2	(3-4)	97.8	3.0	232
897	906	(3-4)	97	2018	2038	(1-2)	245	1.3	90
884.6	902.4	(2-6)(5-1)	102	8.134	8.298	(2-8)(7-1)	1.4	1.0	335
826.3	834.5	(1-2)	96	7275	7347	(3-4)	960	.6	132
826.3	834.5	(1-2)	96	4388	4432	(3-4)	580	.6	134
826.3	834.5	(1-2)	96	2933	2961	(3-4)	382	.9	136
826.3	834.5	(1-2)	96	2097	2117	(3-4)	244	.9	138
826.3	834.5	(1-2)	96	1574	1588	(3-4)	217	1.2	140
826.3	834.5	(1-2)	96	1224	1236	(3-4)	148	1.2	142
770.2	785.9	(1-2)	90	111.6	113.8	(3-4)	11.6	1.0	120
761	769	(1-2)	85	1056	1066	(3-4)	135	1.5	111
748.1	755.9	(1-2)	98.6	748.1	755.9	(3-4)	98.6	.5	220
742.3	749.7	(1-2)	98.6	742	749.7	(3-4)	98.6	.5	202
742.3	749.7	(1-2)	98.6	742.3	749.7	(3-4)	98.6	1.2	205
734	742	(1-2)	92.2	163.1	164.7	(3-4)	18.5	1.0	263
730.3	737.7	(3-4)	83.3	1174	1186	(1-2)	185.3	1.8	211
719.4	726.6	(3-4)	82.5	1114	1126	(1-2)	182.8	3.0	212
709.5	716.5	(1-2)	151.3	--	--	--	--	.5	237
706.4	713.6	(1-2)	81.6	--	--	--	--	.5	221
701.5	708.5	(1-2)	81.6	--	--	--	--	1.8	210
698.5	705.5	(3-4)	81.6	1114	1126	(1-2)	182.8	3.0	218
698	705	(1-2)	81.6	--	--	--	--	1.5	209

E1E TYPE INDUCTORS									
Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Test Freq Kc	Code
695.5	702.5	(3-4)	151.3	993	1003	(1-2)	192.1	.5	E1E235
695	709	(1-2)	78.2	14.45	14.75	(3-4)	27.6	1.8	12
694	701	(1-2)	81.6	--	--	--	--	1.5	208
693.5	700.5	(1-2)	81.6	--	--	--	--	2.5	213
693.5	700.5	(3-4)	81.6	1114	1126	(1-2)	182.8	3.0	216
688	695	(1-2)	151.3	--	--	--	--	.5	240
687.9	701.7	(1-2)	71.2	31.0	31.6	(3-4)	4	1.0	124
687	693	(1-2)	72	--	--	--	--	1.0	114
686.5	693.5	(1-2)	81.6	--	--	--	--	.9	207
679.6	686.4	(3-4)	79.9	1114	1126	(1-2)	182.8	3.0	214
679.6	686.4	(1-2)	79.9	--	--	--	--	3.0	219
678.6	685.4	(1-2)	79.9	--	--	--	--	.9	206
678.6	685.4	(1-2)	100.3	--	--	--	--	2.5	224
678.6	685.4	(1-2)	148.8	--	--	--	--	3.0	229
678.6	685.4	(1-2)	148.8	--	--	--	--	1.5	243
678.6	685.4	(1-2)	148.8	--	--	--	--	2.0	246
678.6	685.4	(1-2)	148.8	--	--	--	--	.9	261
673.2	680.0	(3-4)	70	2017	2037	(1-2)	245	1.5	91
672.6	679.4	(1-2)	79.9	--	--	--	--	3.0	217
668.6	675.4	(1-2)	79.1	--	--	--	--	.5	204
660.7	667.3	(1-2)	78.2	--	--	--	--	.5	203
658.7	665.3	(3-4)	97.8	950.2	959.8	(1-2)	185.3	3.0	230
658.7	665.3	(3-4)	97.8	1357	1371	(1-2)	231.2	3.0	231
658.7	665.3	(1-2)	97.8	--	--	--	--	3.0	234
656.7	663.3	(3-4)	97.8	950.2	959.8	(1-2)	185.3	3.0	227
656.7	663.3	(3-4)	97.8	1357	1371	(1-2)	231.2	3.0	228
656.7	663.3	(3-4)	97.8	1418	1432	(1-2)	238.	.5	236
655.7	662.3	(3-4)	146.2	950.2	959.8	(1-2)	185.3	2.5	225
655.7	662.3	(3-4)	146.2	1357	1371	(1-2)	231.2	2.5	226
653.7	660.3	(1-2)	78.2	--	--	--	--	2.5	215
653.2	659.8	(3-4)	146.2	950.2	959.8	(1-2)	185.3	2.5	222
653.2	659.8	(3-4)	185.2	1357	1371	(1-2)	231.2	2.5	223
653.2	659.8	(3-4)	146.2	950.2	959.8	(1-2)	185.3	2.0 (1-2)	247
								2.5 (3-4)	
653.2	659.8	(3-4)	146.2	1357	1371	(1-2)	231.2	2.0 (1-2)	248
								2.5 (3-4)	
649.7	656.3	(3-4)	146.2	950.2	959.8	(1-2)	185.3	2.0	244
649.7	656.3	(3-4)	146.2	1357	1371	(1-2)	231.2	2.0	245
645.8	652.2	(3-4)	146.2	950.2	959.8	(1-2)	185.3	2.0 (1-2)	259
								1.8 (3-4)	
645.8	652.2	(3-4)	146.2	1357	1371	(1-2)	231.2	2.0 (1-2)	260
								1.8 (3-4)	
641.3	647.7	(3-4)	146.2	950.2	959.8	(1-2)	185.3	1.5	257
641.3	647.7	(3-4)	146.2	1357	1371	(1-2)	231.2	1.5	258
640.2	646.6	(5-6)	116.5	.1915	.1953	(1-2)(3-4)	.05	8.5	65
640.2	646.6	(1-2)	116.5	--	--	--	--	8.5	66
639.8	646.2	(3-4)	97.8	923.4	932.6	(1-2)	182.8	3.0	232
639.8	646.2	(3-4)	97.8	1319	1334	(1-2)	229.5	3.0	233
635.8	642.2	(3-4)	146.2	950.2	959.8	(1-2)	185.3	1.5	241
635.8	642.2	(3-4)	146.2	1357	1371	(1-2)	231.2	1.5	242
631	643	(1-2)	66.1	452	461	(3-4)	56	.9	267
630.8	637.2	(3-4)	142	950.2	959.8	(1-2)	185.3	.9 (1-2)	255
								1.0 (3-4)	
630.8	637.2	(3-4)	142	1357	1371	(1-2)	231.2	.9 (1-2)	256
								1.0 (3-4)	
624.9	631.1	(3-4)	178.5	950.2	959.8	(1-2)	185.3	.9	253
624.9	631.1	(3-4)	178.5	1357	1371	(1-2)	231.2	.9	254
619.2	631.8	(1-2)	67	14.9	15.3	(3-4)	1.75	1.0	125
618.4	624.6	(3-4)	176.8	964.2	973.8	(1-2)	188.7	.5 (1-2)	249
								.9 (3-4)	
618.4	624.6	(3-4)	176.8	1377	1391	(1-2)	231.2	.5 (1-2)	250
								.9 (3-4)	
618.4	624.6	(3-4)	176.8	950.2	959.8	(1-2)	185.3	.9	251
618.4	624.6	(3-4)	176.8	1357	1371	(1-2)	231.2	.9	252
600.9	613.1	(1-2)	67	142.6	145.4	(3-4)	13.3	1.0	119

E1E TYPE INDUCTORS

Inductance Millihenries		Winding	Approx DCR Ohms	Inductance Millihenries		Winding	Approx DCR Ohms	Test Freq Kc	Code
Min	Max			Min	Max				
592	598	(1-2)	65	1056	1066	(3-4)	135	1.7	E1E112
585	597	(3-4)	66	2860	2920	(1-2)	378	.9	77
534.6	545.4	(5-6)(7-8)	61.2	235.0	239.8	(1-2)(3-4)	26	1.8	288
524.8	530.0	(3-4)	61	2017	2037	(1-2)	245	1.7	92
521.7	532.3	(1-2)(3-4)	60	255.4	260.6	(5-6)(7-8)	26	.5	155
500	505	(3-4)	59.1	1280	1292	(1-2)	157.4	1.0	265
463	473	(1-2)	54.4	109.9	112.1	(3-4)	10.71	1.0	24
452	461	(3-4)	56	631	643	(1-2)	66.1	.9	267
445.5	454.5	(5-6)(7-8)	44	63.56	64.84	(1-2)(3-4)	6.6	1.0	163
431	437	(1-2)	44	431	437	(3-4)	44	1.0	85
420	424.2	(3-4)	43	2016	2036	(1-2)	245	1.9	93
390	394	(3-4)	39	1066	1078	(1-2)	138	1.0	185
385.1	392.9	(1-2)	41	213.2	217.6	(3-4)	19.8	1.0	118
385	393	(1-2)	43	192.6	196.4	(3-4)	24.9	1.0	328
368.3	375.7	(5-6)(7-8)	40	15.64	15.96	(1-2)(3-4)	1.8	2.5	168
364.2	367.8	(3-4)	78.2	964.2	973.8	(1-2)	188.7	.5	238
364.2	367.8	(3-4)	78.2	1377	1391	(1-2)	231.2	.5	239
345.5	352.5	(1-2)	41	83.7	85.3	(3-4)(5-6)	10.1	.9	337
344.2	347.6	(3-4)	39	2016	2036	(1-2)	245	2.1	94
343.9	347.3	(5-6)(7-8)	40	307.6	310.7	(1-2)(3-4)	38	3.6	270
339.8	346.6	(5-6)	40.4	156.4	159.6	(1-2)	18	1.0	336
337.8	344.6	(5-6)(7-8)	40.5	10.61	10.83	(1-2)(3-4)	1.6	3.0	318
335.6	342.4	(5-6)(7-8)	38	22.08	22.52	(1-2)(3-4)	2.6	2.0	167
335.5	342.5	(1-2)	40	207	211	(3-4)	26.1	.5	307
335.5	342.5	(1-2)	40	--	--	--	--	.5	308
335.2	341.8	(5-6)(7-8)	66.1	7.273	7.419	(1-2)(3-4)	1.9	1.8	104
334.6	341.4	(5-6)(7-8)	38	9.702	9.898	(1-2)(3-4)	1.4	3.0	177
329.7	336.3	(5-6)(7-8)	37	57.22	58.38	(1-2)(3-4)	6.2	1.5	164
315.8	320.2	(1-2)	37	305.6	310.0	(3-4)	36.5	6.0	75
315.8	320.2	(1-2)	37	--	--	--	--	6.0	76
314.8	321.2	(5-6)(7-8)	36	30.89	31.51	(1-2)(3-4)	4	2.0	166
310.9	317.1	(5-6)(7-8)	36	42.87	43.73	(1-2)(3-4)	4.7	1.5	165
307.6	310.7	(1-2)(3-4)	38	343.9	347.3	(5-6)(7-8)	40	3.6	270
305.7	311.9	(1-2)	95.2	90.00	91.82	(3-4)	29.75	1.8	7
305.6	310.0	(3-4)	36.5	315.8	320.2	(1-2)	37	6.0	75
303	309	(1-2)	38	4.77	4.87	(3-4)(5-6)	1.06	.9	338
295	301	(5-6)(7-8)	29	11.83	12.07	(1-2)(3-4)	1.6	3.0	176
290.8	296.6	(1-2)	33.15	211.4	215.6	(3-4)	22.53	.7	23
285.1	290.9	(1-2)	28	--	--	--	--	1.0	146
285.0	290.6	(1-2)	90.95	73.47	74.95	(3-4)	33.15	1.8	6
283.1	288.9	(1-2)	28	7.187	7.333	(3-4)	1.2	6.0	149
283.1	288.9	(1-2)	28	28.61	29.19	(3-4)	3	3.0	150
278.2	283.8	(1-2)	89.25	67.7	69.0	(3-4)	25.5	1.8	5
264.3	269.7	(5-6)(7-8)	27	24.45	24.95	(1-2)(3-4)	2.8	2.5	161
255.4	260.6	(5-6)(7-8)	26	521.7	532.3	(1-2)(3-4)	60	.5	155
255.4	260.6	(5-6)(7-8)	26	229.7	234.3	(1-2)(3-4)	25	1.0	156
255.4	260.6	(5-6)(7-8)	26	120.8	123.2	(1-2)(3-4)	12	1.0	157
254.6	259.8	(1-2)	85	39.96	40.76	(3-4)	15.73	1.8	9
254.2	256.6	(3-4)	27	1267	1279	(1-2)	148	.6	126
246.5	251.5	(5-6)(7-8)	26	50.39	51.41	(1-2)(3-4)	5.9	1.5	159
243.5	248.5	(5-6)(7-8)	27	18.81	19.19	(1-2)(3-4)	2	3.0	175
242.4	247.0	(5-6)(7-8)	28	125.5	128.1	(1-2)(3-4)	16	1.0	311
241.6	246.4	(5-6)(7-8)	25	183.1	186.9	(1-2)(3-4)	18	1.0	169
237.6	242.4	(5-6)(7-8)	25	36.73	37.47	(1-2)(3-4)	4.3	2.0	160
235.0	239.8	(1-2)(3-4)	26	534.6	545.4	(5-6)(7-8)	61.2	1.8	288
233.6	238.4	(5-6)(7-8)	25	79.89	81.51	(1-2)(3-4)	9.7	1.5	158
232.0	236.6	(1-2)	82.45	68.28	69.66	(3-4)	25.5	1.8	8
231.7	236.3	(1-2)	25	--	--	--	--	1.0	145
229.7	234.3	(1-2)(3-4)	25	255.4	260.6	(5-6)(7-8)	26	1.0	156
228.1	232.7	(5-6)(7-8)	27	25.4	25.8	(1-2)(3-4)	3	2.5	317
222.4	226.8	(5-6)(7-8)	26.2	83.0	84.6	(1-2)(3-4)	10.7	1.0	312
215.7	220.1	(1-2)(3-4)	20	165.7	169.1	(1-6)(7-4)	17.5	1.8	188
213.2	217.6	(3-4)	19.8	385.1	392.9	(1-2)	41	1.0	118
211.4	215.6	(3-4)	22.53	290.8	296.6	(1-2)	33.15	.7	23
207	211	(3-4)	26.1	335.5	342.5	(1-2)	40	.5	307

E1E TYPE INDUCTORS									
Inductance Millihenries		Winding	Approx DCR Ohms	Inductance Millihenries		Winding	Approx DCR Ohms	Test Freq Kc	Code
Min	Max			Min	Max				
205.9	210.1	(5-6)(7-8)	20.35	181.8	185.4	(1-2)(3-4)	19.2	1.8	E1E291
193.3	197.1	(5-6)(7-8)	25	62.2	63.4	(1-2)(3-4)	7.4	2.0	313
193	197	(5-6)(7-8)	19	32.17	32.83	(1-2)(3-4)	4	2.5	174
192.6	196.4	(3-4)	24.9	93.4	95.2	(1-2)	11	1.0	327
192.6	196.4	(3-4)	24.9	385	393	(1-2)	43	1.0	328
192.1	195.9	(5-6)(7-8)	19	26.53	27.07	(1-2)(3-4)	2.9	2.5	162
183.1	186.9	(1-2)(3-4)	18	241.6	246.4	(5-6)(7-8)	25	1.0	169
183.1	184.9	(1-2)	138	--	--	--	--	1.0	186
181.8	185.4	(1-2)(3-4)	19.2	205.9	210.1	(5-6)(7-8)	20.35	1.8	291
180.5	184.0	(1-2)(3-4)	19	--	--	--	--	3.0	325
175.4	179.0	(5-6)(7-8)	68	8.66	8.84	(1-2)(3-4)	2.42	1.8	275
174.2	177.8	(5-6)(7-8)	18	121.3	123.7	(1-2)(3-4)	12	1.5	170
173.3	176.7	(1-2)(3-4)	19.04	--	--	--	--	1.8	2
173.3	176.7	(1-6)(7-4)	17.8	21.8	22.2	(1-2)(3-4)	2.64	1.8	191
171.7	175.1	(5-6)(7-8)	19	37.3	37.9	(1-2)(3-4)	4.5	2.5	316
169.0	172.4	(1-2)	17.6	65.3	66.7	(3-4)	6.7	1.0	121
165.7	169.1	(1-6)(7-4)	17.5	215.7	220.1	(1-2)(3-4)	20	1.8	188
165.7	169.1	(1-2)(3-4)	20	75.5	77.0	(5-6)(7-8)	8	1.8	273
164.92	168.25	(5-6)(7-8)	18	91.8	93.6	(1-2)(3-4)	10.8	3.0	323
164.9	168.3	(1-2)	68	45.19	46.11	(3-4)	16.58	1.8	10
164.8	168.0	(5-6)(7-8)	18.5	55.3	56.3	(1-2)(3-4)	7	2.0	314
163.1	164.7	(3-4)	18.5	73.4	74.2	(1-2)	92.2	1.0	263
157.2	160.4	(1-2)(3-4)	17	47.22	48.18	(5-6)(7-8)	4.9	1.0	95
156.4	159.6	(1-2)	18	339.8	346.6	(5-6)	40.4	1.0	336
156.2	159.4	(1-2)(3-4)	17.56	47.32	48.28	(5-6)(7-8)	5.2	1.8	297
153.4	154.8	(3-4)	16.5	1267	1279	(1-2)	148	.6	127
153.4	156.6	(5-6)(7-8)	17	53.06	54.14	(1-2)(3-4)	6	2.0	173
150.5	153.4	(3-4)	17.6	108.0	110.2	(1-2)	11.6	3.0	326
149.5	152.5	(5-6)(7-8)	13	66.53	67.87	(1-2)(3-4)	6.8	2.0	172
147.5	150.5	(5-6)(7-8)	13	94.64	96.56	(1-2)(3-4)	11	1.5	171
146.9	149.9	(1-6)(7-4)	13.3	87.3	89.0	(1-2)(3-4)	10.2	1.8	189
145.3	148.3	(5-6)(7-8)	17.3	50.9	51.9	(1-2)(3-4)	6.6	2.0	315
142.6	145.4	(3-4)	13.3	600.9	613.1	(1-2)	67	1.0	119
141.2	144.0	(5-6)(7-8)	17.1	23.0	23.4	(1-2)(3-4)	2.9	3.0	319
141.1	143.9	(1-6)(7-4)	13.1	45.9	46.8	(1-2)(3-4)	4.85	1.8	190
139.0	141.8	(1-2)	13.1	--	--	--	--	1.0	123
135.7	137.1	(1-2)(3-4)	67.15	40.9	41.7	(5-6)(7-8)	4.6	1.0	63
130.4	133.0	(5-6)(7-8)	47	8.15	8.31	(1-2)(3-4)	2.26	1.8	274
130.4	133.0	(5-6)(7-8)	15.83	49.2	50.2	(1-2)(3-4)	6.1	1.8	289
125.5	128.1	(1-2)(3-4)	16	242.4	247.0	(5-6)(7-8)	28	1.0	311
121.3	123.7	(1-2)(3-4)	12	174.2	177.8	(5-6)(7-8)	18	1.5	170
120.8	123.2	(1-2)(3-4)	12	255.4	260.6	(5-6)(7-8)	26	1.0	157
118.1	120.5	(1-2)(3-4)	12.2	53.3	54.3	(5-6)(7-8)	6.45	1.8	280
118.1	120.5	(1-2)(3-4)	10.95	75.5	77.0	(5-6)(7-8)	7.15	1.8	282
117.8	120.2	(1-2)	12.3	94.6	96.6	(3-4)(5-6)	95.6	11	339
115.5	117.8	(5-6)(7-8)	13.2	73.75	75.25	(1-2)(3-4)	9.74	1.8	294
113.6	115.8	(1-2)(3-4)	11.82	97.2	99.1	(5-6)(7-8)	9.92	1.8	284
113.6	115.8	(1-2)(3-4)	10.95	28.41	28.99	(5-6)(7-8)	3.13	1.8	298
111.6	113.8	(3-4)	11.6	770.2	785.8	(1-2)	90	1.0	120
109.9	112.1	(3-4)	10.71	463	473	(1-2)	54.4	1.0	24
108.1	110.2	(1-2)(3-4)	11.3	42.2	43.1	(5-6)(7-8)	4.7	1.8	271
108.1	110.2	(1-2)(3-4)	10.45	108.1	110.2	(5-6)(7-8)	10.45	1.8	286
108.1	110.2	(5-6)(7-8)	10.43	79.1	80.7	(1-2)(3-4)	10	1.8	293
108.0	110.2	(1-2)	11.6	150.5	153.4	(3-4)	17.6	3.0	326
106.27	108.53	(1-2)(3-4)	14.37	--	--	--	--	1.8	1
104.5	106.7	(5-6)(7-8)	11.65	83.85	85.55	(1-2)(3-4)	10.45	1.8	292
102.5	103.5	(3-4)	11.3	1267	1279	(1-2)	148	.9	128
101.7	103.7	(1-2)(3-4)	11.22	30.49	31.11	(5-6)(7-8)	3.88	1.7	32
97.2	99.1	(1-2)(3-4)	9.83	36.5	37.2	(5-6)(7-8)	4.35	1.8	278
97.2	99.1	(5-6)(7-8)	9.92	113.6	115.8	(1-2)(3-4)	11.82	1.8	284
94.64	96.56	(1-2)(3-4)	11	147.5	150.5	(5-6)(7-8)	13	1.5	171
94.6	96.6	(3-4)(5-6)	11	117.8	120.2	(1-2)	12.3	.9	339
93.4	95.2	(1-2)	11	192.6	196.4	(3-4)	24.9	1.0	327
93.14	95.02	(1-2)(3-4)	10.81	46.57	47.51	(5-6)(7-8)	4.9	1.7	37
91.8	93.6	(1-2)(3-4)	10.8	164.92	168.25	(5-6)(7-8)	18	3.0	323

E1E TYPE INDUCTORS

Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Test Freq Kc	Code
91.5	92.5	(1-2)	10	33.5	33.9	(3-4)	4	1.0	E1E187
91.4	92.3	(1-2)(3-4)	44.2	--	--	--	--	8.0	61
91.4	92.3	(1-2)(3-4)	44.2	1.414	1.442	(5-6)(7-8)	.54	8.3	62
90.2	92.0	(1-2)	11.06	68.1	69.5	(3-4)(5-6)	7.83	4.2	302
90.00	91.82	(3-4)	29.75	305.7	311.9	(1-2)	95.2	1.8	7
89.3	91.2	(3-4)	11.05	63.4	64.7	(1-2)	7.4	4.2	299
88.1	89.8	(3-4)	10.5	53.25	54.60	(1-2)	6.6	3.0	324
87.3	89.0	(1-2)(3-4)	10.2	146.9	149.9	(1-6)(7-4)	13.3	1.8	189
87.3	89.0	(5-6)(7-8)	9.83	60.6	61.8	(1-2)(3-4)	6.25	1.8	287
87.3	89.1	(1-2)(3-4)	9.83	87.3	89.1	(5-6)(7-8)	9.83	1.8	290
84.15	85.00	(1-2)(3-4)	10.5	35.48	35.84	(5-6)(7-8)	4.3	3.6	269
83.85	85.55	(1-2)(3-4)	10.45	104.5	106.7	(5-6)(7-8)	11.65	1.8	292
83.7	85.3	(3-4)(5-6)	10.1	345.5	352.5	(1-2)	41	.9	337
83.0	84.6	(1-2)(3-4)	10.7	222.4	226.8	(5-6)(7-8)	26.2	1.0	312
83.0	83.9	(1-2)(3-4)	53.6	35.5	36.2	(5-6)(7-8)	4.17	1.8	39
83.0	83.9	(1-2)(3-4)	53.6	26.90	27.44	(5-6)(7-8)	3.66	2.0	40
83.0	83.9	(1-2)(3-4)	53.6	20.45	20.85	(5-6)(7-8)	2.55	2.3	41
83.0	83.9	(1-2)(3-4)	37.4	1.913	1.951	(5-6)(7-8)	.65	7.5	59
83.0	83.9	(1-2)(3-4)	37.4	1.774	1.808	(5-6)(7-8)	.63	7.8	60
82.9	84.5	(5-6)	10.1	1273	1299	(1-2)(3-4)	207.4	.3	27
81.32	82.96	(1-2)(3-4)	10	38.39	39.17	(5-6)(7-8)	4.44	1.7	31
79.89	81.51	(1-2)(3-4)	9.7	233.6	238.4	(5-6)(7-8)	25	1.5	158
79.89	81.50	(1-2)(3-4)	7.5	--	--	--	--	2.0	195
79.1	80.7	(1-2)(3-4)	10	108.1	110.2	(5-6)(7-8)	10.43	1.8	293
78.2	79.8	(1-2)(3-4)	9.13	67.6	69.0	(5-6)(7-8)	7.5	1.8	272
78.1	79.7	(5-6)(7-8)	9.92	62.1	63.3	(1-2)(3-4)	6.25	1.8	285
76.5	78.0	(1-2)	7.6	55.9	57.1	(3-4)	7.0	4.2	306
75.86	76.92	(1-2)	9.4	--	--	--	--	4.0	73
75.5	77.0	(5-6)(7-8)	8.0	165.7	169.1	(1-2)(3-4)	20	1.8	273
75.5	77.0	(5-6)(7-8)	7.15	118.1	120.5	(1-2)(3-4)	10.95	1.8	282
73.75	75.25	(1-2)(3-4)	9.74	115.5	117.8	(5-6)(7-8)	13.2	1.8	294
73.47	74.95	(3-4)	33.15	285.0	290.6	(1-2)	91	1.8	6
73	74	(3-4)	7.8	1267	1279	(1-2)	148	.9	129
72.6	74.1	(3-4)(5-6)	8	16.38	16.73	(1-2)	2	4.2	300
72.5	73.96	(1-2)(3-4)	7.85	44.25	45.15	(5-6)(7-8)	4.79	1.7	28
70.1	71.5	(1-2)	7.8	15.84	16.16	(3-4)(5-6)	1.95	.9	340
69.6	71.0	(3-4)(5-6)	7.91	23.15	23.62	(1-2)	2.8	4.2	301
69.5	70.9	(1-2)(3-4)	6.1	36.5	37.2	(5-6)(7-8)	4.35	1.8	279
69.5	70.9	(1-2)(3-4)	6.8	45.9	46.8	(5-6)(7-8)	5.05	1.8	281
68.28	69.66	(3-4)	25.5	232.0	236.6	(1-2)	82.45	1.8	8
68.1	69.5	(3-4)(5-6)	7.83	90.2	92.0	(1-2)	11.06	4.2	302
67.8	68.6	(1-2)(3-4)	38.25	19.88	20.28	(5-6)(7-8)	2.5	2.6	42
67.8	68.6	(1-2)(3-4)	38.25	16.80	17.14	(5-6)(7-8)	2.3	2.8	43
67.8	68.6	(1-2)(3-4)	38.25	14.10	14.38	(5-6)(7-8)	1.66	3.0	44
67.8	68.6	(1-2)(3-4)	38.25	11.93	12.17	(5-6)(7-8)	1.53	3.3	45
67.8	68.6	(1-2)(3-4)	38.25	10.1	10.3	(5-6)(7-8)	1.41	3.6	46
67.8	68.6	(1-2)(3-4)	38.25	8.57	8.74	(5-6)(7-8)	1.31	3.9	47
67.8	68.6	(1-2)(3-4)	38.25	7.30	7.44	(5-6)(7-8)	1.21	4.3	48
67.8	68.6	(1-2)(3-4)	38.25	6.26	6.38	(5-6)(7-8)	1.15	4.6	49
67.8	68.6	(1-2)(3-4)	38.25	5.40	5.51	(5-6)(7-8)	1.04	5.0	50
67.8	68.6	(1-2)(3-4)	38.25	4.74	4.83	(5-6)(7-8)	.99	5.3	51
67.8	68.6	(1-2)(3-4)	38.25	4.20	4.28	(5-6)(7-8)	.95	5.6	52
67.8	68.6	(1-2)(3-4)	30.6	3.77	3.84	(5-6)(7-8)	.9	5.9	53
67.8	68.6	(1-2)(3-4)	30.6	3.42	3.49	(5-6)(7-8)	.86	6.2	54
67.8	68.6	(1-2)(3-4)	30.6	3.13	3.19	(5-6)(7-8)	.82	6.5	55
67.8	68.6	(1-2)(3-4)	30.6	2.884	2.942	(5-6)(7-8)	.8	6.8	56
67.8	68.6	(1-2)(3-4)	30.6	2.678	2.732	(5-6)(7-8)	.8	7.0	57
67.8	68.6	(1-2)(3-4)	30.6	2.511	2.561	(5-6)(7-8)	.77	7.3	58
67.7	69.0	(3-4)	25.5	278.2	283.8	(1-2)	89.25	1.8	5
67.6	69.0	(5-6)(7-8)	7.5	78.2	79.8	(1-2)(3-4)	9.13	1.8	272
67.6	69.0	(1-2)(3-4)	6.6	58.2	59.3	(5-6)(7-8)	6.15	1.8	283
66.96	68.32	(1-2)(3-4)	6.9	47.22	48.18	(5-6)(7-8)	4.9	3.0	96
66.53	67.87	(1-2)(3-4)	6.8	149.5	152.5	(5-6)(7-8)	13	2.0	172
65.3	66.7	(3-4)	6.7	169.0	172.4	(1-2)	17.6	1.0	121
64.55	65.85	(5-6)(7-8)	6.85	51.97	53.03	(1-2)(3-4)	6.17	1.8	295

E1E TYPE INDUCTORS									
Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Test Freq Kc	Code
Min	Max			Min	Max				
64.22	65.52	(1-2)	7.34	7.378	7.528	(3-4)	.97	1.7	E1E 29
63.56	64.84	(1-2)(3-4)	6.6	445.5	454.5	(5-6)(7-8)	44	1.0	163
63.4	64.7	(1-2)	7.4	89.3	91.2	(3-4)	11.05	4.2	299
62.2	63.4	(1-2)(3-4)	7.4	193.3	197.1	(5-6)(7-8)	25	2.0	313
62.1	63.3	(1-2)(3-4)	6.25	78.1	79.7	(5-6)(7-8)	9.92	1.8	285
60.6	61.8	(1-2)(3-4)	6.25	87.3	89.0	(5-6)(7-8)	9.83	1.8	287
59.22	60.06	(1-2)	6.4	34.48	34.96	(3-4)	4.2	4.0	72
59.2	60.4	(1-2)	7.2	57.7	58.9	(3-4)(5-6)	7.05	4.2	303
58.2	59.3	(5-6)(7-8)	6.15	67.6	69.0	(1-2)(3-4)	6.6	1.8	283
57.7	58.9	(3-4)(5-6)	7.05	59.2	60.4	(1-2)	7.2	4.2	303
57.22	58.38	(1-2)(3-4)	6.2	329.7	336.3	(5-6)(7-8)	37	1.5	164
55.9	57.1	(3-4)	7.0	76.5	78.0	(1-2)	7.6	4.2	306
55.7	56.9	(3-4)(5-6)	6.95	28.18	28.75	(1-2)	3.21	4.2	305
55.3	56.3	(1-2)(3-4)	7	164.8	168.0	(5-6)(7-8)	18.5	2.0	314
55.0	55.5	(3-4)	6.5	1267	1279	(1-2)	148	1.2	130
54.75	55.85	(1-2)(3-4)	5.7	28.12	28.65	(5-6)(7-8)	3.15	3.0	19
53.66	54.74	(1-2)	5.76	--	--	--	--	1.8	82
53.56	54.64	(1-2)(3-4)	6.25	48.31	49.29	(5-6)(7-8)	6.1	1.8	296
53.3	54.3	(5-6)(7-8)	6.45	118.1	120.5	(1-2)(3-4)	12.2	1.8	280
53.25	54.60	(1-2)	6.6	88.1	89.8	(3-4)	10.5	3.0	324
53.2	54.2	(1-2)	6.	38.3	39.1	(3-4)	4.5	1.0	122
53.06	54.14	(1-2)(3-4)	6	153.4	156.6	(5-6)(7-8)	17	2.0	173
51.97	53.03	(1-2)(3-4)	6.17	64.55	65.85	(5-6)(7-8)	6.85	1.8	295
51.68	52.72	(5-6)(7-8)	6.7	27.03	27.57	(1-2)(3-4)	3.2	3.0	309
51	52	(3-4)(5-6)	6.6	24.3	24.8	(1-2)	2.92	4.2	304
50.9	51.9	(1-2)(3-4)	6.6	145.3	148.3	(5-6)(7-8)	17.3	2.0	315
50.39	51.41	(1-2)(3-4)	5.9	246.5	251.5	(5-6)(7-8)	26	1.5	159
50.29	51.31	(1-2)	5.9	50.29	51.31	(3-4)	5.9	3.0	151
49.2	50.2	(1-2)(3-4)	6.1	130.4	133.0	(5-6)(7-8)	15.83	1.8	289
48.70	49.68	(1-2)(3-4)	5	32.57	33.23	(5-6)	4.03	2.1 (1-4) 3.6 (5-6)	35
48.31	49.21	(5-6)(7-8)	6.1	53.56	54.64	(1-2)(3-4)	6.25	1.8	296
47.4	48.4	(1-2)(3-4)	4.76	7.54	7.70	(5-6)(7-8)	1.22	5.0	79
47.32	48.28	(1-2)(3-4)	5.27	24.3	24.8	(5-6)(7-8)	2.9	3.0	20
47.32	48.28	(5-6)(7-8)	5.2	156.2	159.4	(1-2)(3-4)	17.56	1.8	297
47.22	48.18	(1-2)	5.06	23.61	24.09	(3-4)	2.8	3.0	38
47.22	48.18	(5-6)(7-8)	4.9	157.2	160.4	(1-2)(3-4)	17	1.0	95
47.22	48.18	(5-6)(7-8)	4.9	66.96	68.32	(1-2)(3-4)	6.9	3.0	96
47.22	48.18	(5-6)(7-8)	4.9	30.06	30.66	(1-2)(3-4)	4	5.0	97
46.57	47.51	(5-6)(7-8)	4.9	93.14	95.02	(1-2)(3-4)	10.81	1.7	37
45.9	46.8	(1-2)(3-4)	4.85	141.1	143.9	(1-6)(7-4)	13.1	1.8	190
45.9	46.8	(5-6)(7-8)	5.05	69.5	70.9	(1-2)(3-4)	6.8	1.8	281
45.77	46.69	(1-2)(3-4)	4.85	37.70	38.46	(5-6)	4.39	2.1	33
45.19	46.11	(3-4)	16.58	164.9	168.3	(1-2)	68	1.8	10
44.25	45.15	(5-6)(7-8)	4.79	72.5	73.96	(1-2)(3-4)	7.85	1.7	28
42.97	43.83	(1-2)	16.4	--	--	--	--	1.8	11
42.87	43.73	(1-2)(3-4)	4.7	310.9	317.1	(5-6)(7-8)	36	1.5	165
42.8	43.2	(3-4)	4.8	1267	1279	(1-2)	148	1.2	131
42.3	43.1	(1-2)(3-4)	4.6	13.90	14.18	(5-6)(7-8)	1.73	8.0	64
42.2	43.1	(5-6)(7-8)	4.7	108.1	110.0	(1-2)(3-4)	11.3	1.8	271
41.95	42.79	(1-2)(3-4)	4.7	40.21	41.03	(5-6)(7-8)	4.6	3.6	36
41.8	42.2	(1-2)(3-4)	4.6	--	--	--	--	1.0	86
41.4	42.2	(1-2)	4.0	--	--	--	--	1.8	13
40.9	41.7	(5-6)(7-8)	4.6	135.7	137.1	(1-2)(3-4)	67.2	1.0	63
40.21	41.03	(5-6)(7-8)	4.6	41.95	42.79	(1-2)(3-4)	4.7	3.6	36
39.96	40.76	(3-4)	15.73	254.6	259.8	(1-2)	85	1.8	9
39.1	39.9	(1-2)(3-4)	3.83	20.07	20.47	(5-6)(7-8)	2.13	1.8	16
38.4	38.8	(1-2)(3-4)	4.5	38.4	38.8	(5-6)(7-8)	4.5	2.0	192
38.39	39.17	(5-6)(7-8)	4.44	81.32	82.96	(1-2)(3-4)	10	1.7	31
38.3	39.1	(3-4)	4.5	53.2	54.2	(1-2)	6	1.0	122
37.82	38.58	(1-2)(3-4)	4.4	--	--	--	--	2.0	196
37.70	38.46	(5-6)	4.39	45.77	46.69	(1-2)(3-4)	4.85	2.1	33
37.70	38.46	(1-2)	4.39	32.46	33.12	(3-4)	4.03	2.1	34
37.3	37.9	(1-2)(3-4)	4.5	171.7	175.1	(5-6)(7-8)	19	2.5	316
36.73	37.47	(1-2)(3-4)	4.3	237.6	242.4	(5-6)(7-8)	25	2.0	160

E1E TYPE INDUCTORS

Inductance Millihenries		Winding	Approx DCR Ohms	Inductance Millihenries		Winding	Approx DCR Ohms	Test Freq Kc	Code
Min	Max			Min	Max				
36.5	37.2	(5-6)(7-8)	4.35	97.2	99.1	(1-2)(3-4)	9.83	1.8	E1E278
36.5	37.2	(5-6)(7-8)	4.35	69.5	70.9	(1-2)(3-4)	6.1	1.8	279
35.5	36.2	(5-6)(7-8)	4.17	83.0	83.9	(1-2)(3-4)	53.6	1.8	39
35.48	35.84	(5-6)(7-8)	4.3	84.15	85.00	(1-2)(3-4)	10.5	3.6	269
35.44	36.16	(1-2)(3-4)	4.3	35.44	36.16	(5-6)(7-8)	4.3	3.0	154
34.48	34.96	(3-4)	4.2	59.22	60.06	(1-2)	6.4	4.0	72
34.00	34.88	(1-2)(3-4)	4.3	34.00	34.88	(5-6)(7-8)	4.3	3.0	320
33.5	33.9	(3-4)	4	91.5	92.5	(1-2)	10	1.0	187
33.26	33.94	(1-2)	4.2	30.49	31.11	(3-4)	4	3.0	148
32.57	33.23	(5-6)	4.03	48.70	49.68	(1-2)(3-4)	5	2.1 (1-4) 3.6 (5-6)	35
32.46	33.12	(3-4)	4.03	37.70	38.46	(1-2)	4.39	2.1	34
32.17	32.83	(1-2)(3-4)	4	193	197	(5-6)(7-8)	19	2.5	174
31.98	32.62	(1-2)	3.32	20.79	21.21	(3-4)	2.19	1.8	17
31.48	32.11	(1-2)	3.84	--	--	--	--	1.8	84
31.0	31.6	(3-4)	4	687.9	701.7	(1-2)	71.2	1.0	124
31.0	31.6	(1-2)	4.1	17.6	18.0	(3-4)	2	3.0	321
30.89	31.51	(1-2)(3-4)	4	314.8	321.2	(5-6)(7-8)	36	2.0	166
30.54	31.16	(1-2)(3-4)	4	2.36	2.408	(5-6)	.37	1.0	99
30.49	31.11	(5-6)(7-8)	3.88	101.7	103.7	(1-2)(3-4)	11.22	1.7	32
30.49	31.11	(3-4)	4	33.26	33.94	(1-2)	4.2	3.0	148
30.06	30.66	(1-2)(3-4)	4	47.22	48.18	(5-6)(7-8)	4.9	5.0	97
30.05	30.65	(1-2)	4.1	--	--	--	--	1.0	262
29.9	30.5	(1-2)	3.9	18.02	18.38	(3-4)	2	3.0	147
29.7	30.3	(1-2)	3.9	--	--	--	--	1.8	71
29.61	30.03	(1-2)	3.9	18.97	19.23	(3-4)	2.03	8.0	74
29.56	30.16	(3-4)	3	23.63	24.11	(1-2)	2.6	4.0	81
29.54	30.14	(1-2)	3.13	19.21	19.59	(3-4)	2.06	3.0	21
28.61	29.19	(3-4)	3	283.1	288.9	(1-2)	28	3.0	150
28.5	29.1	(1-2)	11.3	--	--	--	--	1.8	3
28.41	28.99	(5-6)(7-8)	3.13	113.6	115.8	(1-2)(3-4)	10.95	1.8	298
28.18	28.75	(1-2)	3.21	55.7	56.9	(3-4)(5-6)	6.95	4.2	305
28.12	28.65	(5-6)(7-8)	5.7	54.75	55.85	(1-2)(3-4)	3.15	3.0	19
27.92	28.48	(1-2)	3.15	27.92	28.48	(3-4)	3.15	1.8	25
27.80	28.36	(1-2)(3-4)	3.2	--	--	--	--	5.0	333
27.03	27.57	(1-2)(3-4)	3.2	51.68	52.72	(5-6)(7-8)	67	3.0	309
26.94	27.48	(5-6)(7-8)	3.15	21.54	21.98	(1-2)(3-4)	2.8	5.0	331
26.90	27.44	(5-6)(7-8)	3.66	83.0	83.9	(1-2)(3-4)	53.6	2.0	40
26.53	27.07	(1-2)(3-4)	2.9	192.1	195.9	(5-6)(7-8)	19	2.5	162
26.19	26.71	(1-2)(3-4)	2.9	17.46	17.82	(5-6)	1.9	1.0	100
25.4	25.8	(1-2)(3-4)	3	228.1	232.7	(5-6)(7-8)	27	2.5	317
24.95	25.45	(5-6)(7-8)	2.9	14.16	14.44	(1-2)(3-4)	1.7	7.0	182
24.65	25.15	(1-2)(3-4)	2.9	2.475	2.525	(5-6)	.75	3.0	310
24.651	25.149	(1-2)(3-4)	2.8	24.651	25.149	(5-6)(7-8)	2.8	2.0	193
24.45	24.95	(1-2)(3-4)	2.8	264.3	269.7	(5-6)(7-8)	27	2.5	161
24.3	24.8	(5-6)(7-8)	2.9	47.32	48.28	(1-2)(3-4)	6.2	3.0	20
24.3	24.8	(1-2)	2.92	51	52	(3-4)(5-6)	6.6	4.2	304
24.26	24.74	(1-2)(3-4)	2.95	15.01	15.31	(5-6)(7-8)	1.9	5.0	332
24.00	24.48	(1-2)(3-4)	2.75	17.46	17.82	(5-6)	1.9	1.0	98
23.63	24.11	(1-2)	2.6	29.56	30.16	(3-4)	3	4.0	81
23.61	24.09	(3-4)	2.8	47.22	48.18	(1-2)	5.06	3.0	38
23.15	23.62	(1-2)	2.8	69.6	71.0	(3-4)(5-6)	7.91	4.2	301
23.0	23.4	(1-2)(3-4)	2.9	141.2	144.0	(5-6)(7-8)	17.1	3.0	319
22.37	22.83	(1-2)	2.3	--	--	--	--	1.8	18
22.08	22.52	(1-2)(3-4)	2.6	335.6	342.4	(5-6)(7-8)	38	2.0	167
21.88	22.32	(1-2)(3-4)	2.6	17.82	18.18	(5-6)(7-8)	1.9	7.0	183
21.8	22.2	(1-2)(3-4)	2.64	173.3	176.7	(1-6)(7-4)	17.8	1.8	191
21.54	21.98	(1-2)(3-4)	2.8	26.94	27.48	(5-6)(7-8)	3.15	5.0	331
21.09	21.51	(1-2)	2.08	--	--	--	--	1.8	83
21.0	21.5	(1-2)	2.25	4.65	4.77	(3-4)	.85	1.8	197
20.79	21.21	(3-4)	2.19	31.98	32.62	(1-2)	3.32	1.8	17
20.67	21.09	(1-2)	2.08	--	--	--	--	3.0	22
20.45	20.85	(5-6)(7-8)	2.55	83.0	83.9	(1-2)(3-4)	53.6	2.3	41
20.30	20.80	(1-2)	2.19	7.92	8.12	(3-4)	1.09	1.8	199
20.29	20.71	(1-2)(3-4)	2.1	--	--	--	--	3.0	153

E1E TYPE INDUCTORS									
Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Test Freq Kc	Code
20.18	20.62	(1-2)	2.19	--	--	--	--	1.8	E1E200
20.07	20.47	(5-6)(7-8)	2.13	39.1	39.9	(1-2)(3-4)	4.25	1.8	16
19.88	20.28	(5-6)(7-8)	2.5	67.8	68.6	(1-2)(3-4)	38.3	2.6	42
19.8	20.2	(1-2)(3-4)	2.2	--	--	--	--	3.0	322
19.21	19.59	(3-4)	2.06	29.54	30.14	(1-2)	3.13	3.0	21
18.97	19.23	(3-4)	2.03	29.61	30.03	(1-2)	3.9	8.0	74
18.81	19.19	(1-2)(3-4)	2.0	243.5	248.5	(5-6)(7-8)	27	3.0	175
18.02	18.38	(3-4)	2.	29.9	30.5	(1-2)	3.9	3.0	147
17.82	18.18	(5-6)(7-8)	1.9	21.88	22.32	(1-2)(3-4)	2.6	7.0	183
17.6	18.0	(3-4)	2	31.0	31.6	(1-2)	4.1	3.0	321
17.46	17.82	(5-6)	1.9	24.00	24.48	(1-2)(3-4)	2.75	1.0	98
17.46	17.82	(5-6)	1.9	26.19	26.71	(1-2)(3-4)	2.9	1.0	100
17.42	17.78	(1-2)(3-4)	1.9	--	--	--	--	3.0	152
16.93	17.27	(1-2)	1.9	--	--	--	--	3.0	144
16.80	17.14	(5-6)(7-8)	2.3	67.8	68.6	(1-2)(3-4)	38.3	2.8	43
16.38	16.73	(1-2)	2.	72.6	74.1	(3-4)(5-6)	8	4.2	300
16.34	16.66	(1-2)	1.87	16.34	16.66	(3-4)	1.87	1.8	26
16.14	16.46	(1-2)	6.38	--	--	--	--	1.8	4
15.84	16.16	(3-4)(5-6)	1.95	70.1	71.5	(1-2)	7.8	.9	340
15.64	15.96	(1-2)(3-4)	1.8	368.3	375.7	(5-6)(7-8)	40	2.5	168
15.25	15.55	(1-2)	1.84	--	--	--	--	1.8	67
15.01	15.31	(5-6)(7-8)	1.9	24.26	24.74	(1-2)(3-4)	2.95	5.0	332
14.9	15.3	(3-4)	1.75	619.2	631.8	(1-2)	67	1.0	125
14.45	14.75	(3-4)	27.63	695	709	(1-2)	78.2	1.8	12
14.16	14.44	(1-2)(3-4)	1.7	24.95	25.45	(5-6)(7-8)	2.9	7.0	182
14.10	14.38	(5-6)(7-8)	1.66	67.8	68.6	(1-2)(3-4)	38.3	3.0	44
13.90	14.18	(5-6)(7-8)	1.73	42.3	43.1	(1-2)(3-4)	4.6	8.0	64
13.26	13.54	(1-2)	1.49	4.65	4.77	(3-4)	.85	1.8	198
11.93	12.17	(5-6)(7-8)	1.53	67.8	68.6	(1-2)(3-4)	38.25	3.3	45
11.83	12.07	(1-2)	1.36	--	--	--	--	1.8	14
11.83	12.07	(1-2)(3-4)	1.6	295	301	(5-6)(7-8)	29	3.0	176
11.48	11.72	(1-2)	1.6	11.48	11.72	(3-4)	1.6	4.0	80
10.61	10.83	(1-2)(3-4)	1.6	337.8	344.6	(5-6)(7-8)	40.5	3.0	318
10.44	10.66	(1-2)	1.5	--	--	--	--	3.0	103
10.4	11.2	(1-2)	1.53	2.75	3.05	(3-4)	.4	1.8(1-2)	184
10.1	10.3	(5-6)(7-8)	1.41	67.8	68.6	(1-2)(3-4)	38.25	3.6	46
10.0	10.2	(1-2)(3-4)	1.5	10.0	10.2	(5-6)(7-8)	1.5	2.0	194
9.702	9.898	(1-2)(3-4)	1.4	334.6	341.4	(5-6)(7-8)	38	3.0	177
9.13	9.31	(1-2)	1.39	--	--	--	--	1.8	68
8.712	8.888	(1-2)(3-4)	1.3	--	--	--	--	3.0	201
8.66	8.84	(1-2)(3-4)	2.42	175.4	179.0	(5-6)(7-8)	68	1.8	275
8.57	8.74	(5-6)(7-8)	1.31	67.8	68.6	(1-2)(3-4)	38.25	3.9	47
8.15	8.31	(1-2)(3-4)	2.26	130.4	133.0	(5-6)(7-8)	47	1.8	274
8.134	8.298	(2-8)(7-1)	1.4	884.6	902.4	(2-6)(5-1)	102	1.0	335
8.10	8.26	(1-2)	1.1	--	--	--	--	3	181
7.92	8.12	(3-4)	1.09	20.3	20.8	(1-2)	2.19	1.8	199
7.54	7.70	(5-6)(7-8)	1.22	47.4	48.4	(1-2)(3-4)	4.76	5.0	79
7.50	7.66	(5-6)(7-8)	2.2	3079	3141	(1-2)(3-4)	391	.9(1-4)	276
7.378	7.528	(3-4)	.97	64.22	65.52	(1-2)	7.34	1.7	29
7.30	7.44	(5-6)(7-8)	1.2	67.8	68.6	(1-2)(3-4)	38.25	4.3	48
7.273	7.419	(1-2)(3-4)	1.9	335.2	341.8	(5-6)(7-8)	66.1	1.8	104
7.187	7.333	(3-4)	1.2	283.1	288.9	(1-2)	28	6.0	149
6.732	6.868	(1-2)	.88	--	--	--	--	1.8	15
6.43	6.57	(1-2)	.68	--	--	--	--	7.0	268
6.26	6.38	(5-6)(7-8)	1.15	67.8	68.6	(1-2)(3-4)	38.3	4.6	49
5.40	5.51	(5-6)(7-8)	1.04	67.8	68.6	(1-2)(3-4)	38.3	5.0	50
4.835	4.933	(2-8)(7-1)	1.07	1010	1030	(2-6)(5-1)	138	1.0	334
4.792	4.888	(1-2)	.59	3.168	3.232	(3-4)	.49	4.0	330
4.77	4.87	(3-4)(5-6)	1.06	303	309	(1-2)	38	.9	338
4.74	4.83	(5-6)(7-8)	.99	67.8	68.6	(1-2)(3-4)	38.3	5.3	51
4.65	4.77	(3-4)	.85	13.26	13.54	(1-2)	1.49	1.8	198
4.65	4.77	(3-4)	.85	21.0	21.5	(1-2)	2.25	1.8	197
4.36	4.44	(1-2)	1	3.70	3.78	(3-4)	1	1.0	116

E1E TYPE INDUCTORS									
Inductance Millihenries		Winding	Approx DCR Ohms	Inductance Millihenries		Winding	Approx DCR Ohms	Test Freq Kc	Code
Min	Max			Min	Max				
4.2	4.28	(5-6)(7-8)	.95	67.8	68.6	(1-2)(3-4)	38.3	5.6	E1E 52
3.83	3.95	(5-6)(7-8)	1.3	1540	1570	(1-2)(3-4)	225.3	.9(1-4)	
3.829	3.907	(1-2)(3-4)	.55	1.137	1.183	(5-6)(7-8)	.28	1.8(5-8)	329
3.77	3.84	(5-6)(7-8)	.9	67.8	68.6	(1-2)(3-4)	30.6	4.0	53
3.70	3.78	(3-4)	1	4.36	4.44	(1-2)	1	5.9	116
3.42	3.49	(5-6)(7-8)	.86	67.8	68.6	(1-2)(3-4)	30.6	1.0	54
3.168	3.232	(3-4)	.49	4.792	4.888	(1-2)	.59	6.2	330
3.13	3.19	(5-6)(7-8)	.82	67.8	68.6	(1-2)(3-4)	30.6	4.0	55
2.97	3.03	(1-2)	.9	2.52	2.57	(3-4)	.8	6.5	115
2.884	2.942	(5-6)(7-8)	.8	67.8	68.6	(1-2)(3-4)	30.6	1.0	56
2.75	3.05	(3-4)	.4	10.4	11.2	(1-2)	1.53	6.8	184
2.678	2.732	(5-6)(7-8)	.79	67.8	68.6	(1-2)(3-4)	30.6	1.8(1-2)	10.0(3-4)
2.52	2.57	(3-4)	.8	2.97	3.03	(1-2)	.9	7.0	
2.52	2.57	(1-2)	.8	--	--	--	--	1.0	57
2.511	2.561	(5-6)(7-8)	.77	67.8	68.6	(1-2)(3-4)	30.6	1.0	115
2.475	2.525	(5-6)	.75	24.65	25.15	(1-2)(3-4)	2.9	7.3	117
2.36	2.408	(5-6)	.37	30.54	31.16	(1-2)(3-4)	4	3.0	58
1.913	1.951	(5-6)(7-8)	.65	83.0	83.5	(1-2)(3-4)	37.4	1.0	310
1.774	1.808	(5-6)(7-8)	.63	83.0	83.9	(1-2)(3-4)	37.4	7.5	99
1.414	1.442	(5-6)(7-8)	.54	91.4	92.3	(1-2)(3-4)	44.2	7.8	59
1.137	1.183	(5-6)(7-8)	.28	3.829	3.907	(1-2)(3-4)	.55	8.3	60
.1915	.1953	(1-2)(3-4)	.05	640.2	646.6	(5-6)	116.5	4.0	62
								8.5	329
									65

E1G TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1.297	1.323	(1-2)(4-3)	3	7	E1G1

F1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
78.2	79.8	(1-2)(3-4)	1.8	7.14	F1A123
75.5	77.0	(1-2)(3-4)	1.8	6.97	122
75.39	76.91	(1-3)	1.8	8.76	115
73.75	75.25	(1-2)(3-4)	1.8	9.52	197
67.6	69.0	(1-2)(3-4)	1.8	6.46	124
64.55	65.85	(1-2)(3-4)	1.8	6.72	199
63.26	64.54	(1-2)(3-4)	1.8	7.06	163
63.2	64.5	(1-2)	1.8	16.15	82
58.9	60.1	(1-2)	1.8	13.26	81
58.2	59.3	(1-2)(3-4)	1.8	6.04	136
57.39	58.61	(1-2)(3-4)	1.8	5.87	162
54.23	55.33	(1-2)	2.9	5.87	208
53.56	54.64	(1-2)(3-4)	1.8	6.12	200
51.97	53.03	(1-2)(3-4)	1.8	6.04	198
49.65	50.75	(1-2)(3-4)	1.8	9.61	23
49.2	50.2	(1-2)(3-4)	1.8	5.95	186
48.87	49.85	(1-2)	3	5.61	4
48.31	49.29	(1-2)(3-4)	1.8	5.95	201
47.32	48.28	(1-2)(3-4)	1.8	5.02	204
47.19	48.21	(1-2)	6.5	5.78	7
47.02	47.98	(1-2)(3-4)	1.8	7.74	27
46.35	47.25	(1-2)	1.8	14.03	179
45.9	46.8	(1-2)(3-4)	1.8	4.17	134
45.02	45.92	(1-2)	1.8	4.25	150
44.2	45.2	(1-2)	1.8	13.6	76
41.4	42.4	(1-2)(3-4)	1.8	3.91	75
39.65	40.45	(1-2)	2.9	4.08	210
38.35	39.12	(1-2)(3-4)	1.8	4.51	161
38.2	39.0	(1-2)(3-4)	1.8	3.83	74
38.0	38.8	(1-2)	.9	4.51	191
37.24	38.18	(1-2)	1.8	3.83	73
36.20	36.96	(1-2)(3-4)	1.8	3.66	160
35.12	35.82	(1-2)	3	3.83	5
34.65	35.35	(1-2)	1.8	3.52	72
33.26	33.94	(1-2)	2.9	3.66	211
32.36	33.04	(1-2)(3-4)	1.8	3.49	159
31.7	32.4	(1-2)	1.8	7.31	69
30.89	31.51	(1-2)	3	3.49	2
30.43	31.07	(1-2)(3-4)	1.8	4.59	158
30.19	30.81	(1-3)	1.8	4.34	116
29.33	29.93	(1-2)	2.9	2.89	209
28.41	28.99	(1-2)(3-4)	1.8	3.06	203
27.57	28.15	(1-2)(3-4)	1.8	2.64	157
26.42	26.98	(1-2)	6.4	2.81	9
25.84	26.36	(1-2)	1.8	3.06	146
24.53	25.03	(1-2)(3-4)	1.8	2.47	145
23.65	24.15	(1-2)	6.5	2.64	6
22.59	23.05	(1-2)	1.8	1.87	151
21.0	21.5	(1-2)	1.8	2.24	19
21.00	21.44	(1-2)(3-4)	1.8	3.23	156
20.3	20.8	(1-2)	1.8	2.18	21
20.18	20.62	(1-2)	1.8	2.18	22
20.15	20.35	(1-2)(3-4)	3	2.65	220
20.08	20.52	(1-2)	1.8	3.21	24
19.8	20.2	(1-2)	1	2.55	11
19.56	19.96	(1-2)	1.8	2.3	63
19.5	19.9	(1-3)	1.8	9.35	214
19.19	19.61	(1-2)(3-4)	1.8	4.76	25
19.1	19.5	(1-2)(3-4)	1.8	1.7	62
18.89	19.27	(1-2)	1.8	1.7	149
18.78	19.16	(1-2)	1.8	2.13	60
17.82	18.18	(1-2)	1.8	5.44	59
16.58	16.92	(1-3)	1.8	1.7	117
15.84	16.00	(1-2)(3-4)	3	30	221
15.74	16.06	(1-2)	1.8	4.25	26

F1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
11500	12500	(1-2)	.9	1130.5	F1A222
4060	4140	(1-2)	2	566.95	229
3079	3141	(1-2)(3-4)	1.8	408	112
1925	1965	(1-2)	.9	246.5	192
1905	1983	(1-2)	1.8	280.5	111
1772	1808	(1-2)	.9	234.6	230
1530	1580	(1-2)	1.8	239.7	110
1254	1280	(1-2)(3-4)	1	148.75	207
1043	1063	(1-2)	.9	106.68	228
980	1020	(1-2)	4	106.25	190
873	907	(1-2)	1.8	113.9	107
805	837	(1-2)	1.8	111.35	106
534.6	545.4	(1-2)(3-4)	.9	63.75	184
438.5	447.5	(1-2)	1.8	144.5	177
384.8	392.6	(1-2)	1.8	82.45	103
323.4	336.6	(1-2)	1.8	86.7	102
315.1	321.5	(1-2)(3-4)	1.8	34.85	176
252.5	257.6	(1-2)	1.8	81.6	101
235.0	239.8	(1-2)(3-4)	1.8	25.5	183
232.7	237.4	(1-2)(3-4)	1.8	34.85	175
228.4	233.0	(1-2)	1.8	43.86	86
206.2	214.6	(1-2)	1.8	49.3	108
205.9	210.1	(1-2)(3-4)	1.8	19.89	189
190.5	199.3	(1-2)	1.8	27.2	100
181.8	185.4	(1-2)(3-4)	1.8	18.7	188
175.8	179.4	(1-2)	4	18.36	206
165.7	169.1	(1-2)(3-4)	1.8	19.55	121
158.8	165.2	(1-2)	1.8	65.45	97
156.2	159.4	(1-2)(3-4)	1.8	17.17	202
138.0	140.8	(1-2)	1.8	15.05	120
130.4	133.0	(1-2)(3-4)	1.8	15.47	187
130.4	133.0	(1-2)(3-4)	1.8	45.9	95
126.2	128.8	(1-2)	1.8	4.42	94
125.94	128.66	(1-2)(3-4)	1.8	13.43	174
118.1	120.5	(1-2)(3-4)	1.8	10.71	132
115.5	117.8	(1-2)(3-4)	1.8	12.84	173
115.17	117.63	(1-2)	1.8	15.81	172
113.6	115.8	(1-2)(3-4)	1.8	10.71	137
113.5	115.7	(1-2)(3-4)	1.8	12.75	171
112.4	115.0	(1-2)(3-4)	1.8	16.66	14
110.9	113.1	(1-2)(3-4)	1.8	12.67	170
108.9	111.1	(1-2)	1.8	28.9	180
108.6	110.8	(1-2)	1.8	19.38	96
108.1	110.2	(1-2)(3-4)	1.8	10.2	126
107.9	110.3	(1-2)(3-4)	1.8	15.9	16
106.82	108.98	(1-2)(3-4)	1.8	12.24	169
106.27	108.53	(1-2)(3-4)	1.8	14.37	168
105.4	107.6	(1-2)	1.8	33.15	93
104.5	106.7	(1-2)(3-4)	1.8	11.39	195
102.9	105.1	(1-2)(3-4)	1.8	10.03	167
101.1	103.3	(1-2)	1.8	10.2	13
98.55	100.65	(1-2)(3-4)	1.8	17.6	166
98.21	100.19	(1-2)(3-4)	1.8	13.77	165
98.2	100.2	(1-2)	5	10.63	10
95.54	97.46	(1-2)(3-4)	1.8	11.22	164
93.55	95.45	(1-3)	1.8	9.76	114
88.8	90.6	(1-2)	1.8	8.33	90
87.3	89.1	(1-2)(3-4)	1.8	10.2	185
87.3	89.0	(1-2)(3-4)	1.8	7.74	141
86.4	91.6	(1-2)(3-4)	1.8	8.06	182
85.4	90.6	(1-2)	1.8	8.76	118
83.85	85.55	(1-2)(3-4)	1.8	10.2	194
83.6	85.4	(1-2)	1.8	23.97	87
80.2	82.0	(1-2)(3-4)	1.8	11.48	15
79.1	80.7	(1-2)(3-4)	1.8	9.78	196

F1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
14.97	15.27	(1-2)(3-4)	1.8	1.62	F1A143
14.69	14.99	(1-2)	1.8	1.45	147
14.66	14.96	(1-2)	3	1.57	3
14.00	14.30	(1-2)(3-4)	1.8	2.13	155
13.6	13.9	(1-2)	1.8	1.39	57
13.26	13.54	(1-2)	1.8	1.49	18
12.73	12.99	(1-2)	1.8	1.45	56
12.28	12.52	(1-2)(3-4)	1.8	1.36	144
11.83	12.07	(1-2)	1.8	1.36	55
11.68	11.92	(1-2)	6	1.36	8
11.34	11.56	(1-2)	1.8	1.36	152
11.19	11.41	(1-2)	1.8	3.57	178
11.19	11.41	(1-2)	1	1.19	12
11.18	11.30	(1-2)(3-4)	3	28	219
9.9	10.1	(1-2)	1.8	1.19	52
9.48	9.68	(1-2)(3-4)	1.8	1.05	51
9.29	9.47	(1-2)	1.8	1.28	148
8.637	8.723	(1-2)(3-4)	3	1.32	218
7.92	8.12	(1-2)	1.8	1.09	20
7.77	7.93	(1-2)	1.8	1.11	48
7.72	7.88	(1-2)(3-4)	1.8	1.07	135
7.508	7.658	(1-2)(4-3)	--	1.96	213
7.39	7.53	(1-2)	1.8	1.06	45
7.37	7.51	(1-2)(3-4)	1.8	1.03	46
6.43	6.57	(1-2)	7	.68	1
6.31	6.43	(1-2)	.9	.71	193
6.3	6.5	(1-2)(3-4)	1.8	.96	44
6.15	6.27	(1-2)(3-4)	1.8	.94	43
5.65	5.77	(1-2)	1.8	.94	153
5.39	5.49	(1-2)(3-4)	1.8	.9	42
5.05	5.15	(1-2)	1.8	.87	41
4.95	5.05	(1-2)	1.8	.87	40
4.65	4.77	(1-2)	1.8	.85	17
4.356	4.444	(1-2)(3-4)	5	.76	212
3.91	3.99	(1-2)	1.8	.8	39
3.554	3.626	(1-2)	1.8	.77	37
3.07	3.14	(1-2)(3-4)	1.8	.7	35
2.93	3.23	(1-2)(3-4)	1.8	.7	36
2.747	2.803	(1-2)	4	.41	205
2.43	2.53	(1-2)	1.8	.61	34
1.833	1.879	(1-2)(3-4)	1.8	.55	154
1.782	1.818	(1-2)	1.8	.51	33
1.47	1.61	(1-2)(3-4)	1.8	.46	31
1.243	1.269	(1-2)	1.8	.29	32
.675	.693	(1-2)	1.8	.31	30
.487	.513	(1-2)(3-4)	1.8	.47	181
.355	--	(1-2)	1	.17	29
1530	1690	(gr wh-bl wh)	.9	212.5	215
588	612	(bl wh-gr)	.9	--	
245	255	(gr-gr wh)	1.8	--	
1190	1310	(or - br)	.9	140.25	216
441	459	(br-br wh)	.9	--	
196	204	(br wh-or)	1.8	--	
823	909	(yel wh-or wh)	.9	93.5	217
294	306	(or wh-yel)	.9	--	
147	153	(yel-yel wh)	1.8	--	
9.94	10.16	(5-6)(7-8)	1.8	2.98	142
8.95	9.15	(1-2)(3-4)	1.8	2.38	
4.74	4.80	(9-6)(7-10)	1.8	2.04	
7.71	7.89	(1-2)(3-4)	1.8	2.89	113
3.85	3.95	(5-1)(4-6)	1.8	1.02	

J1B TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1089	1111	(1-2)	3	783	J1B3
1089	1111	(1-2)	3	783	4
498	508	(1-2)	3	478	2
498	508	(3-4)	3	478	2
258.2	263.4	(3-4)	3	339	3
100.7	101.7	(1-2)	1.8		1
93.6	94.6	(3-4)	1.8		1
71.97	73.43	(3-4)	3	174	4

K1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
39.2	40.0	(1-2)	3	15.7	K1A3
36.5	37.3	(1-2)	3	14.8	2
29.7	30.3	(1-2)	3	12.6	4
4.47	4.56	(1-2)	3	2.2	1

182 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
910	950	(1-2)(3-4)	1.8	225.25	182C
196	204	(1-2)	1.8	45.9	S
110	150	(1-3)	1.8	27.2	T
20.3	20.9	(1-2)(3-4)	1.8	10.88	G
17.7	18.3	(1-2)(3-4)	1.8	10.2	J
6.43	6.57	(1-2)	1.8	1.08	U
4.75	5.25	(1-2)	60	2.79	W

251 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
130.5	159.5	(1-8)	1.8	35.7	251B
17.1	18.9	(1-8)	1.8	4.34	A

279 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
19.5	19.9	(1-3)	1.8	9.35	279A
2.94	3.06	(1-2)(3-4)	1.8	.94	B

293 TYPE INDUCTORS									
Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Inductance Millihenries Min Max		Winding	Approx DCR Ohms	Test Freq Kc	Code
2990	3050	(-2)	460	--	--	--	--	.2	293AB N H AA J M AD K T R A P Y L C
1856	1894	(1-2)	400	1856	1894	(3-4)	400	1.0	
1580	1640	(1-3)	211	--	--	--	--	.9	
1323	1353	(1-2)	163	--	--	--	--	.9	
1225	1275	(1-3)	155	--	--	--	--	.9	
990	1010	(1-2)(3-4)	105	--	--	--	--	1.0	
950	1050	(1-2)	99	--	--	--	--	.9	
849	883	(1-3)	91	--	--	--	--	.9	
791.5	799.5	(1-2)	91	791.5	799.5	(3-4)	91	1.5	
777.9	785.7	(1-2)	90	777.9	785.7	(3-4)	90	.6	
416	438	(1-2)	39	412	438	(3-4)	39	9.5	
281	293	(1-2)	100	--	--	--	--	1.8	
228	232	(1-2)	27	2160	2380	(3-4)	270	.9	
209	231	(1-2)	20	209	231	(3-4)	20	.9	
196	200	(1-2)	19	44.5	45.5	(3-4)	4.8	4.0(1-2) 24.0(3-4)	
117.6	122.4	(1-2)	13	--	--	--	--	3.5	B S E F D AC U G
64.87	65.53	(1-2)(3-4)	6.8	--	--	--	--	.6	
44.5	45.5	(1-2)	4.8	44.5	45.5	(3-4)	4.8	28.0	
23.76	24.24	(1-2)	2.2	23.76	24.24	(3-4)	2.2	56.0	
12.37	12.63	(1-2)	1.6	--	--	--	--	4.0	
20.7	21.5	(1-2)	2.5	408	416	(3-4)	50	.9	
10.3	10.5	(1-2)(3-4)	1.45	--	--	--	--	1.5	
4.95	5.05	(1-2)	1	4.95	5.05	(3-4)	1	28.0	

321 TYPE INDUCTOR					
Inductance Millihenries Min Max		Winding	Test Freq Kc	Approx DCR Ohms	Code
2521	2547	(rd wh-rd) (bl wh-bl)	1.4	350	321A

1508 TYPE INDUCTORS					
Inductance Millihenries Min Max		Winding	Test Freq Kc	Approx DCR Ohms	Code
500	620	(1-2)	3	260	1508A

1511 TYPE INDUCTORS					
Inductance Millihenries Min Max		Winding	Test Freq Kc	Approx DCR Ohms	Code
490	500	(3-4)	3	85	1511A
93 (nom)		(5-6)	3	58	
.3 (nom)		(1-2)	3	.2	

1512 TYPE INDUCTORS					
Inductance Millihenries Min Max		Winding	Test Freq Kc	Approx DCR Ohms	Code
64.4	65.6	(3-4)	28	7	1512A
20.41	20.81	(5-6)	3	2.2	
2.17	2.23	(1-2)	3	.6	

1537 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
107.9	110.3	(1-2)(3-4)	1.8	15.9	1537A B
101.1	103.3	(5-6)	1.8	10.2	
49.65	50.75	(1-2)(3-4)	1.8	9.6	
20.08	20.52	(5-6)	1.8	3.2	

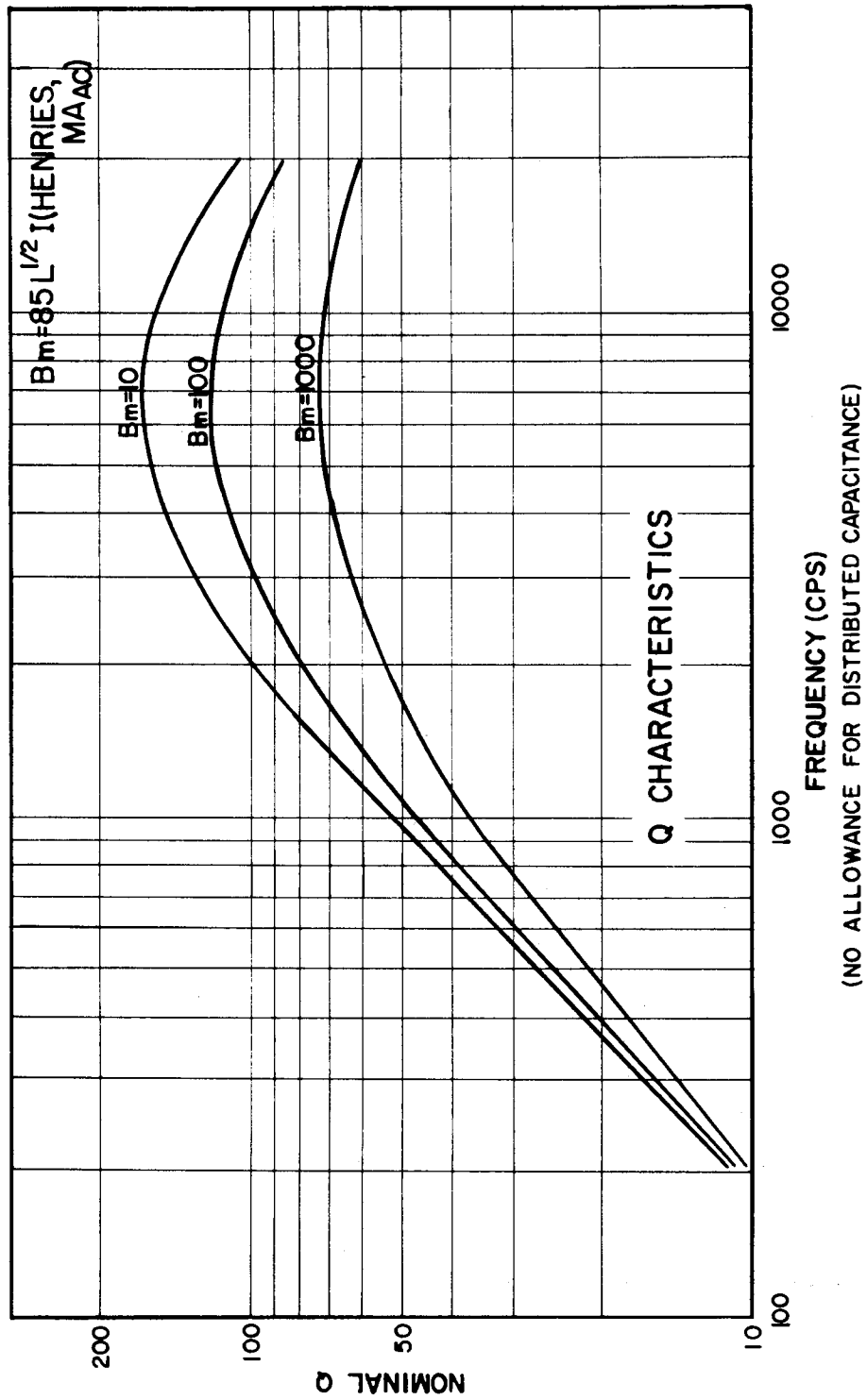
1538 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
112.4	115.0	(1-2)(3-4)	1.8	16.6	1538A B
80.2	82.0	(5-6)(7-8)	1.8	11.5	
49.7	50.8	(1-2)(3-4)	1.8	9.6	
19.2	19.6	(5-6)(7-8)	1.8	4.76	

1539 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
102.1	103.1	(1-2)(3-4)	1.8	12	1539A B
17.8	18.2	(1-3)	2.6	2.06	

1572 TYPE INDUCTOR					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
19.8	20.2	(1-3)	5.8	2.15	1572A

1578 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1598	1630	(1-2)	.7	230	1578B
1580	1612	(1-2)	.8	228	C
1076	1098	(1-2)	.6	144	A
1067	1087	(1-2)	1.8	143	K
1044	1064	(1-2)	1.8	110	L
1030	1050	(1-2)	1.3	109	G
883	901	(1-2)	.85	119	D
685	699	(1-2)	1.1	89	E
656.2	669.4	(1-2)	1.7	87	J
613	625	(1-2)	1.9	66	M
601	613	(1-2)	1.3	65	H
495	505	(1-2)	2.4	58	P
336	342	(1-2)	2.3	40	N
325	331	(1-2)	2.5	39.5	R
102.6	104.7	(1-2)(3-4)	3.8	11.6	Y
45.8	46.8	(1-2)	1.2	5.19	U
16.3	16.7	(1-2)	1.2	1.95	T

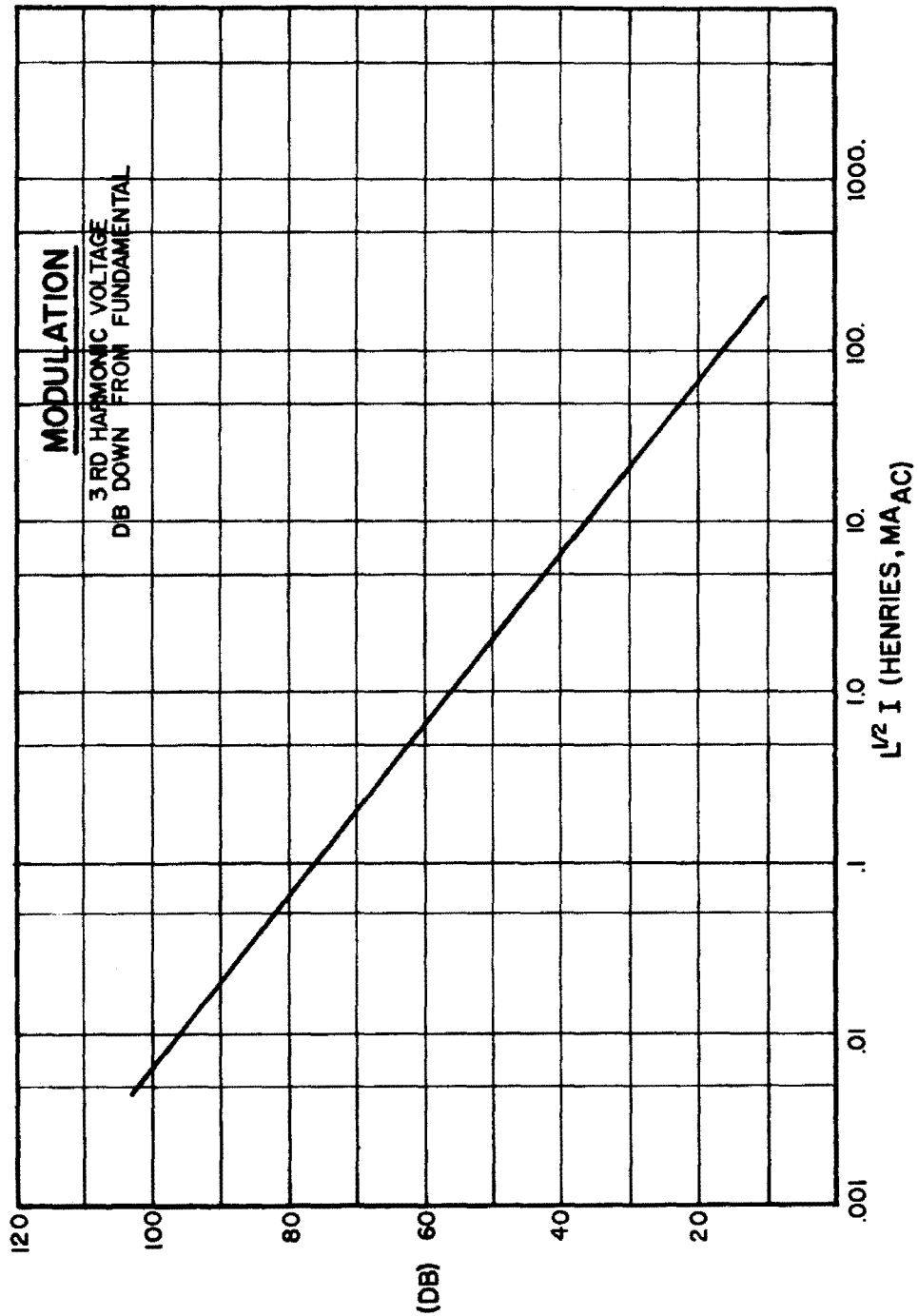
PERMALLOY POWDER CORE
125u 1.06" & 1.35" Cores



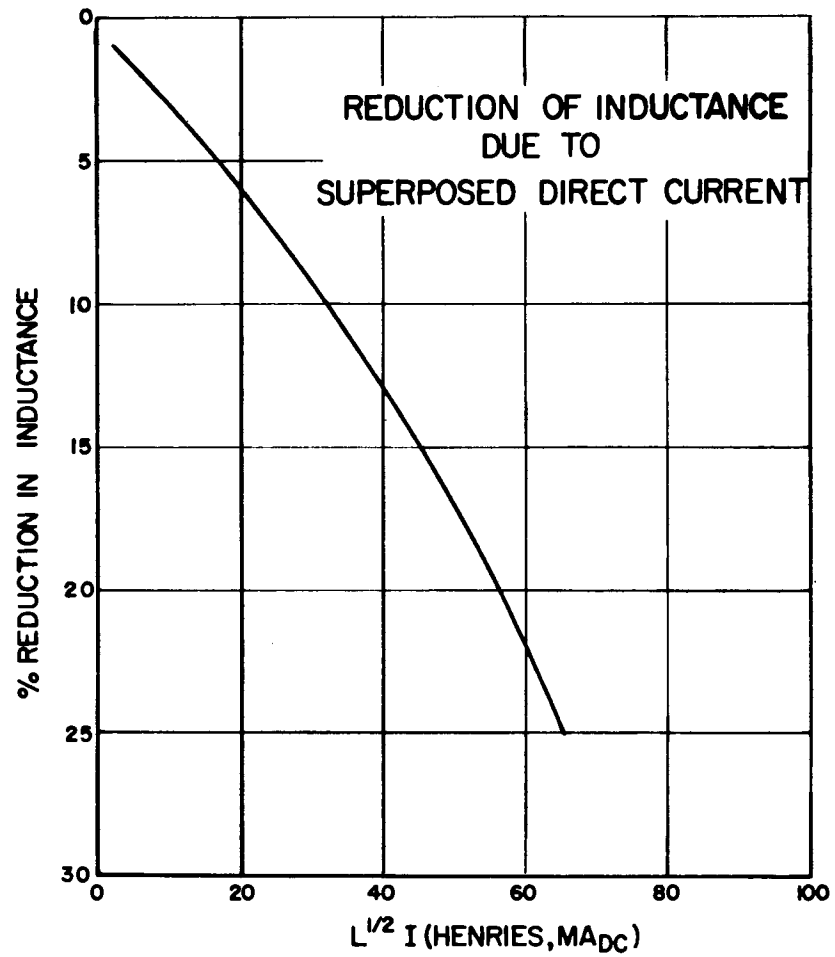
June 1962

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PERMALLOY POWDER CORE
125u 1.06" & 1.35" Cores



PERMALLOY POWDER CORE
125u 1.06" & 1.35" Cores



125 u

The 1587-type inductors are fixed toroidal inductors each wound on a permalloy powder core having a permeability of 125, and potted with microcrystalline wax in a plastic case. These inductors are provided with wire terminals which are arranged for mounting on panels or printed wiring boards; they can also be stacked with other 1587-type inductors.

These inductors are family types; that is, they may be ordered in any inductance value from 0.0100 henry through 10.5 henries by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values for the 1587A inductor is ± 2 per cent, and ± 1 per cent for the 1587B inductor. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.020 henry or 0.120 henry.

INTENDED USE

The 1587-type inductors are intended for general use.

ELECTRICAL DATA

Electrical data for the various inductance values in which the 1587-type inductors may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance change with temperature is nominally about 1 per cent per 100° F.

The characteristics shown in Fig. 1, 2, and 3 are determined when the inductors are tested between terminals 1 and 4 with terminal 2 connected to terminal 3.

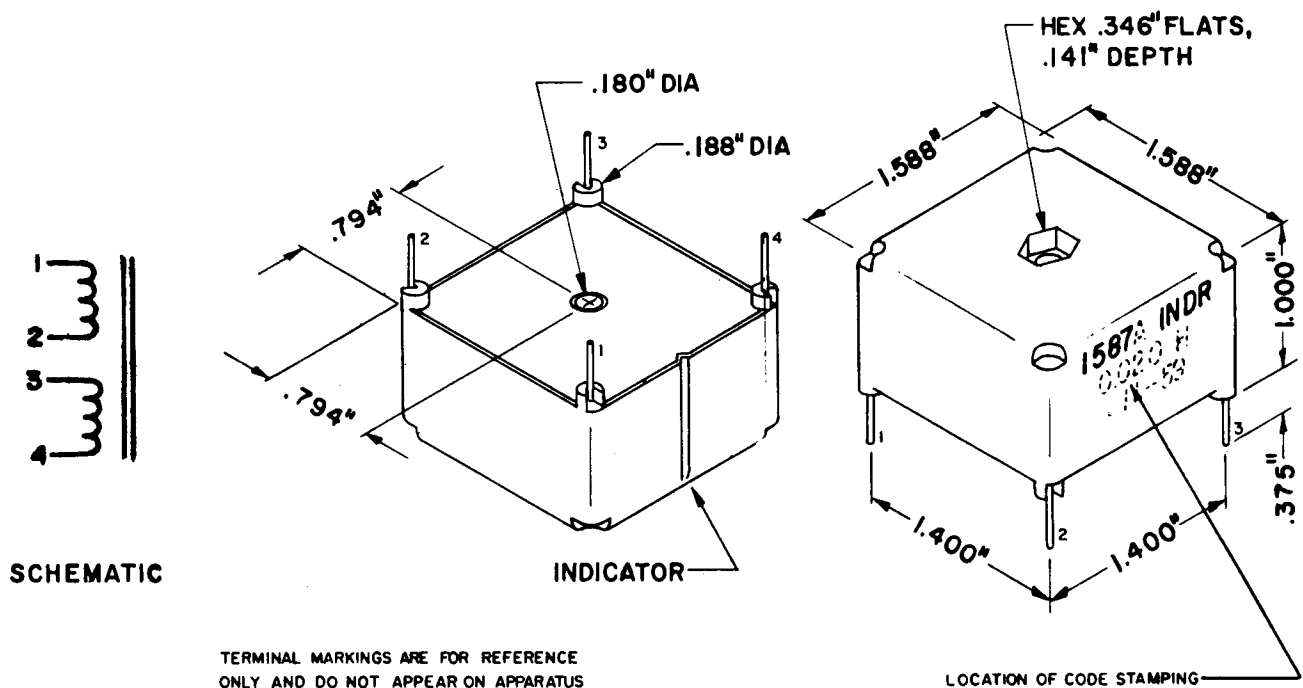


TABLE A - ELECTRICAL DATA								
Inductance**				Q+			Approx DC Res+	Maximum Inductance Unbalance#
Nominal at Test Freq	Test Freq	Test Current	Test Voltage	Minimum	Test Freq	Test Voltage		
henries	cps	amp ac	v ac		cps	v ac	ohms	per cent
0.0200	900	0.002		125	5000	3	2.3	1
0.0290	900	0.002		125	5000	3	3.2	1
0.0480	900	0.002		125	5000	3	5.2	1
0.0760	900	0.002		125	5000	3	7.5	1
0.120	900	0.002		125	5000	3	12.4	1
0.180	900	0.002		125	5000	3	18.8	1
0.260	900	0.002		125	5000	3	26.8	1
0.410	900	0.002		125	5000	3	42.9	1
0.650	900	0.002		125	5000	3	69.3	1
1.08	900	0.002		125	5000	3	107.5	1
1.51	900		3	95	4000	3	166	1
2.27	900		3	95	4000	3	269	1
3.51	200		3	95	4000	3	431	1
6.02	200		3	60	2000	3	708	1
10.5	200		3	60	2000	3	1090	1

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests made between terminals 1 and 4 with terminal 2 connected to terminal 3.

These values apply between windings (1-2) and (3-4) at 900 cps.

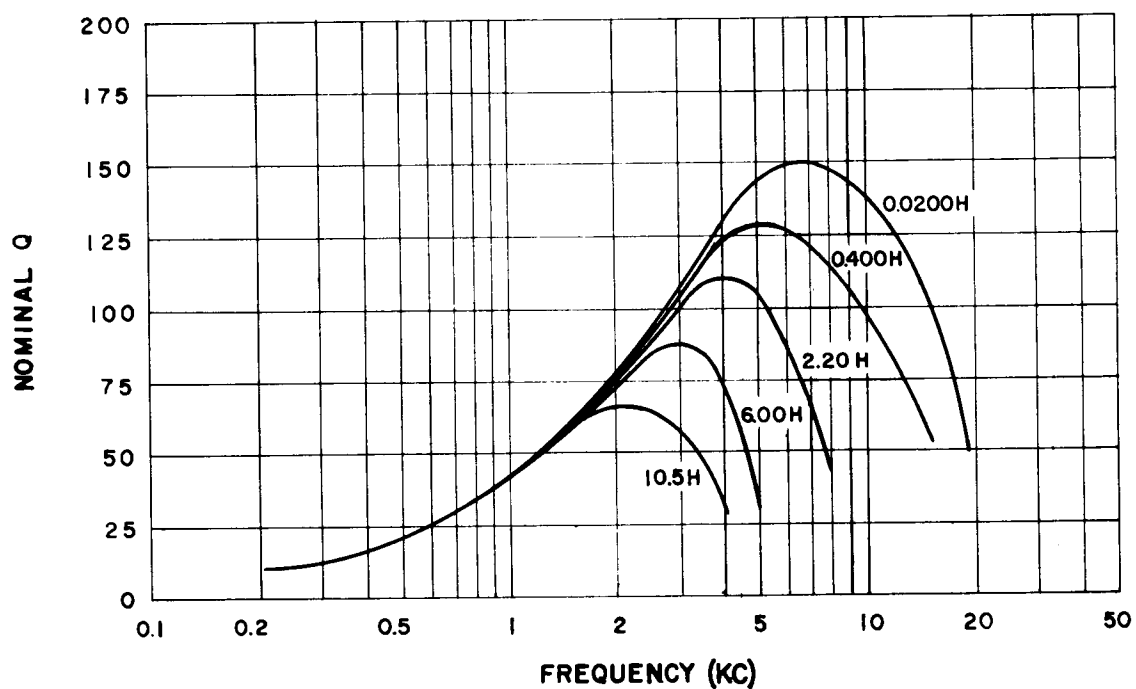


FIG. 1
NOMINAL Q VS FREQUENCY

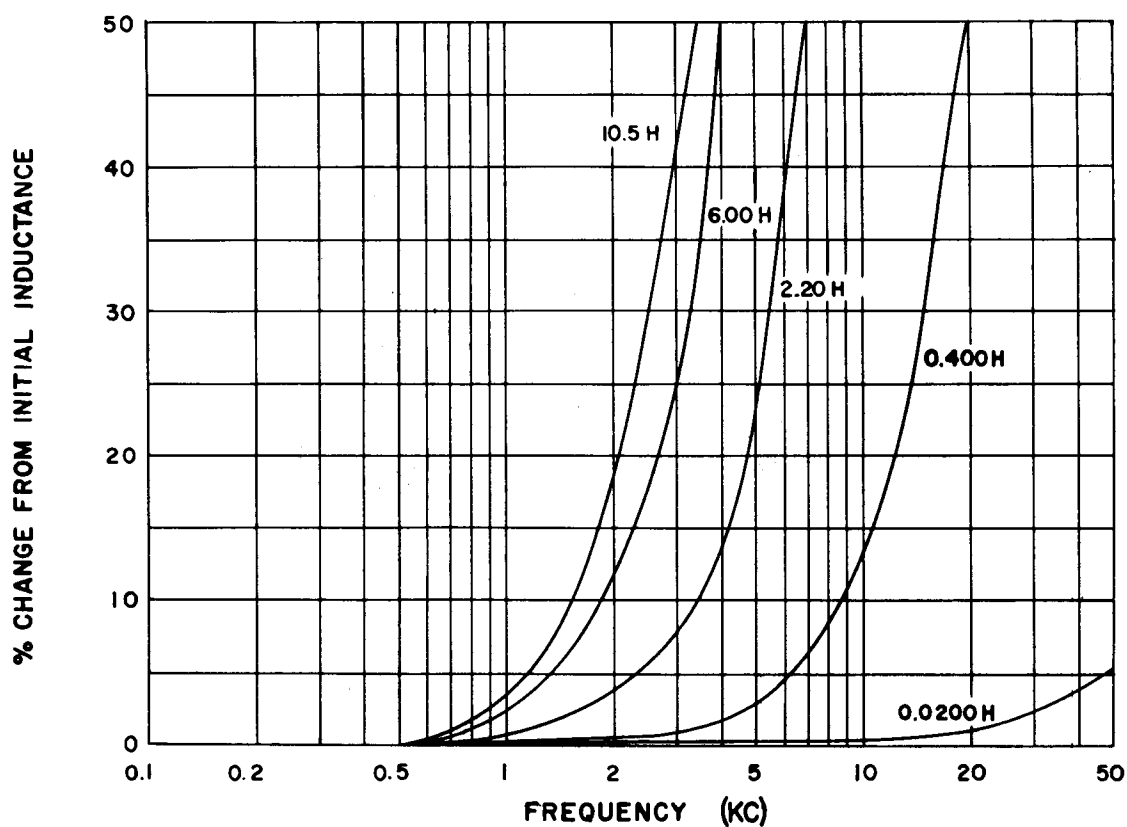


FIG. 2
% INCREASE IN INDUCTANCE WITH FREQUENCY

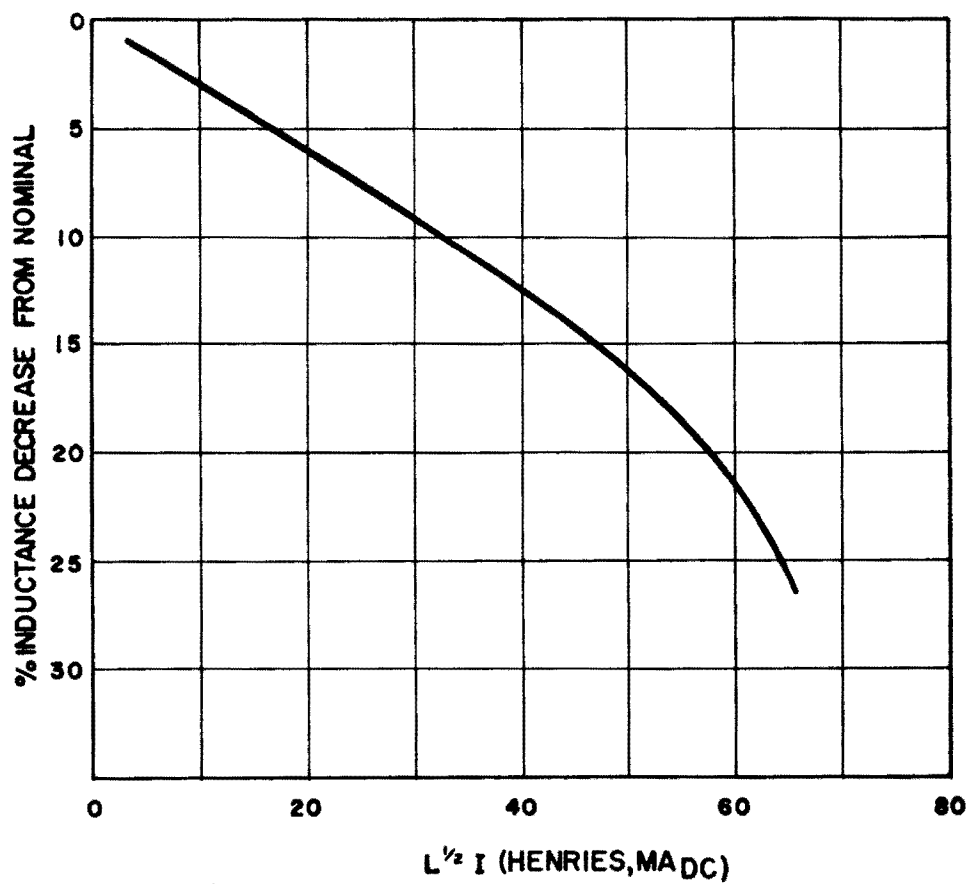


FIG. 3
REDUCTION OF INDUCTANCE DUE TO
SUPERPOSED DIRECT CURRENT

125 u

The 1595-type inductors are fixed toroidal inductors each wound on a permalloy powder core having a permeability of 125, and potted with microcrystalline wax in a plastic case. These inductors are provided with flexible wire leads and can be stacked with other 1595-type inductors.

These inductors are family types; that is, they may be ordered in any inductance value from 0.0100 henry through 10.5 henries by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values for the 1595A inductor is ± 2 per cent, and ± 1 per cent for the 1595B inductor. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.020 henry or 0.120 henry.

INTENDED USE

The 1595-type inductors are intended for general use.

ELECTRICAL DATA

Electrical data for the various inductance values in which the 1595-type inductors may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance change with temperature is nominally about 1 per cent per 100° F.

The characteristics shown in Fig. 1, 2, and 3 for the 1587-type inductors on Page II-39 and II-40 are the same for the 1595-type inductors. These characteristics are determined when the inductor is tested between leads red and blue-white with lead red-white connected to lead blue.

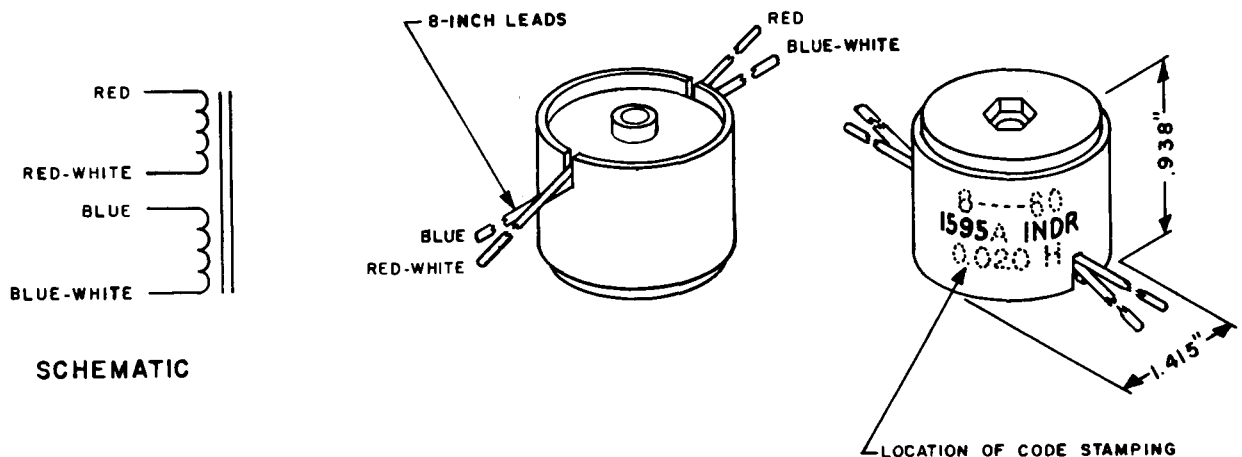


TABLE A - ELECTRICAL DATA

Inductance **				Q+		Approx DC Res+	Maximum Inductance Unbalance#
Nominal at Test Freq	Test Freq	Test Current	Test Voltage	Minimum	Test Freq	Test Voltage	
henries	cps	amp ac	v ac		cps	v ac	ohms per cent
0.0200	900	0.002		125	5000	3	2.3 1
0.0290	900	0.002		125	5000	3	3.2 1
0.0480	900	0.002		125	5000	3	5.2 1
0.0760	900	0.002		125	5000	3	7.5 1
0.120	900	0.002		125	5000	3	12.4 1
0.180	900	0.002		125	5000	3	18.8 1
0.260	900	0.002		125	5000	3	26.8 1
0.410	900	0.002		125	5000	3	42.9 1
0.650	900	0.002		125	5000	3	69.3 1
1.08	900	0.002		125	5000	3	107.5 1
1.51	900		3	95	4000	3	166 1
2.27	900		3	95	4000	3	269 1
3.51	200		3	95	4000	3	431 1
6.02	200		3	60	2000	3	708 1
10.5	200		3	60	2000	3	1090 1

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests made between the red and blue-white leads with the red-white lead connected to the blue lead.

These values apply between (red - red-white) and (blue - blue-white) at 900 cps.

125 μ .8" INDUCTORS					
Code	Fig.	Approximate Dimensions (Inches)			Distance Between Mounting Studs (Inches)
		A	B	C	
E1F	CA	1-13/32	7/8	3-13/32	
F1D	CG	1		1/2	
306	CC	1-3/16	1	1-15/16	11/16
1529	CD	1-3/16	21/32	1-15/16	1-5/8
1554	CB	1-1/32	1-3/16	1-1/2	5/8
1573	CF	1-3/16		11/16	
1577	CE	1-3/16		11/16	
1592	--				
1594	--				

All the above inductors are toroidal types wound on molybdenum permalloy powder cores. Most of the inductors are intended for use in apparatus assemblies not subject to repair in the field. The E1F type coil may contain one, two or three separate coils with individual external terminals for each.

Nominal Performance Data

Frequency range: 100 to 20,000 cps

Types of windings: Single or balanced

Inductance range: .005 to 2.2 henries (See Note 1)

Initial inductance adjustment: $\pm 1\%$ (See Note 2)

DC Resistance: 220 to 270 ohms per henry

Distributed Capacitance: 50 to 75 mmf

Flux density: $B_m = 160 \sqrt{L I}$ (H MA) (See Note 3)

Max recommended AC + DC voltage: 200

Max recommended power dissipation: 1/2 watt

Change of inductance with temperature: +10 to -30 PPM per $^{\circ}\text{F}$

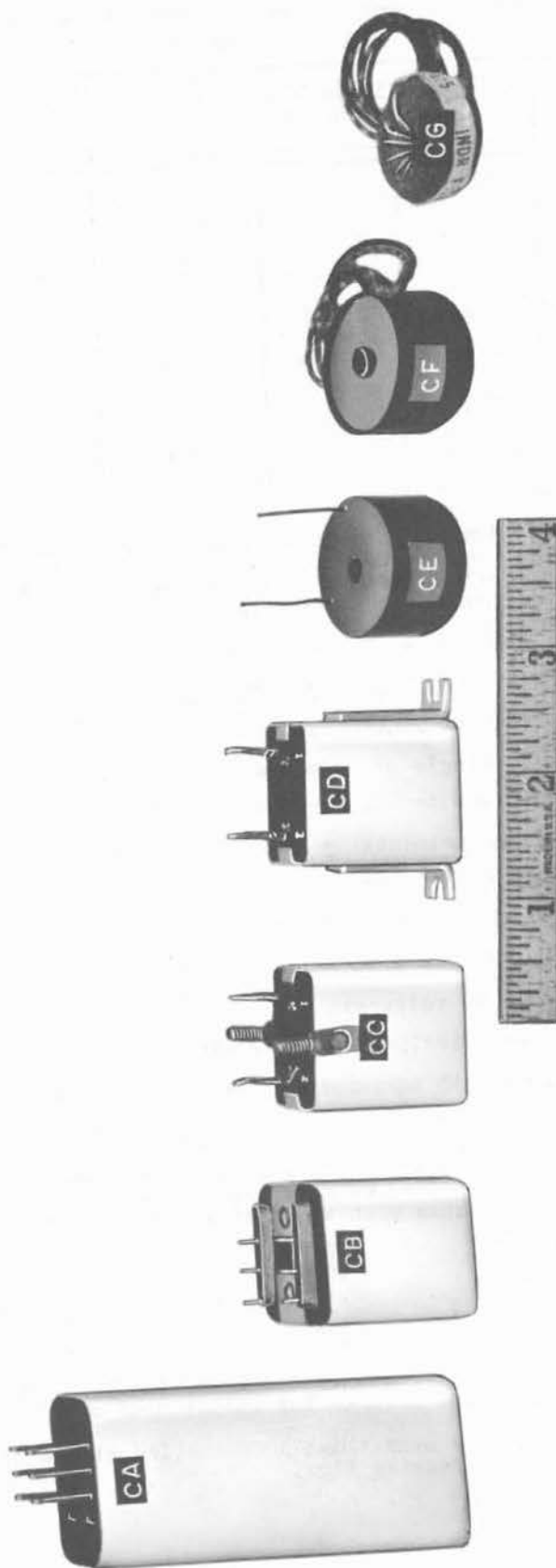
Q, Modulation, Superposed DC: (See characteristics)

Note 1 Inductance values on existing codes are shown on table. Preferred values for new codes are those corresponding to full wound coils with successive wire gauges:

0.006 (henry)	0.050	0.44
0.009	0.075	0.67
0.014	0.120	1.05
0.021	0.188	1.70
0.034	0.28	2.80

Note 2 At specified test frequency and 2 ma. for inductances up to .3 henry and 3 volts for inductances over .3 henry.

Note 3 At flux densities over about 1000 the inductance drops rapidly with increasing flux.



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E1F TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
6.501	6.765	(3-4)	1.6	1.87	E1F 1
1.727	1.797	(5-6)	1.6	.56	
.2108	.2192	(1-2)	1.6	.22	

F1D TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1327	1353	(1-2)	.2	272	F1D10
850	950	(1-2)	.9	182.75	20
640	700	(1-2)	1	156.4	28
247.5	252.5	(1-2)	5	51.85	11
220	280	(1-2)	1	51	5
176	224	(1-2)	1	55.25	6
136.2	141.8	(1-2)	1.8	29.75	2
88	112	(1-2)	1	42.5	3
44.1	44.5	(1-2)	5.8	11.62	32
39.6	40.4	(1-2)	1.8	8.93	27
39.6	40	(1-2)	5.8	11.63	33
38	42	(5-6)	1.8	9.13	36
31.56	32.4	(1-2)	38.5	8.08	29
26	26.6	(1-2)	38.5	5.7	31
23.52	24.48	(1-2)	1.8	5.48	19
19.8	20.2	(3-4)	1.8	5.1	26
17.8	18.2	(1-2)	.9	3.71	35
14.7	15.3	(1-4)	1.8	3.37	21
13.04	13.26	(1-2)	38.5	3.23	30
9.9	10.1	(1-2)	1.8	2.3	25
9.751	9.949	(1-2)	5	2.25	14
9.51	9.69	(1-2)	.9	2.19	34
8.276	8.444	(1-2)	5	1.74	17
6.158	6.282	(1-2)	5	1.5	13
5.801	5.919	(1-2)	5	1.43	12
4.603	4.697	(1-2)	5	1.03	15
4	5	(1-2)	1	.94	4
3.18	3.31	(5-6)	1.8	.89	24
2.198	2.242	(1-2)	5	.71	18
2.06	2.14	(5-6)	1.8	.72	23
2.039	2.081	(1-2)	5	.69	16
1.72	1.78	(5-6)	1.8	.65	22
.1442	.1594	(1-3)	60	--	9
.0703	.0809	(1-3)	60	--	8
.046	.054	(1-4)	1.8	.21	1
.0344	.0412	(1-3)	60	--	7

306 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
2660	2940	(1-2)	.9	552.5	306B
245	255	(1-2)	1.8	51.85	D
7.75	7.91	(1-2)	83	1.7	A
.95	1.05	(1-2)	1.8	.27	F
.046	.054	(1-2)	1.8	.06	C

1529 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
3.18	3.31	(1-2)	1.8	.91	1529C
2.06	2.14	(1-2)	1.8	.74	B
1.72	1.78	(1-2)	1.8	.67	A

1554 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
795	825	(1-3)(4-6) sa	2.	2.85	1554B
397	413	(1-3)(4-6) pa	2.	1.4	A

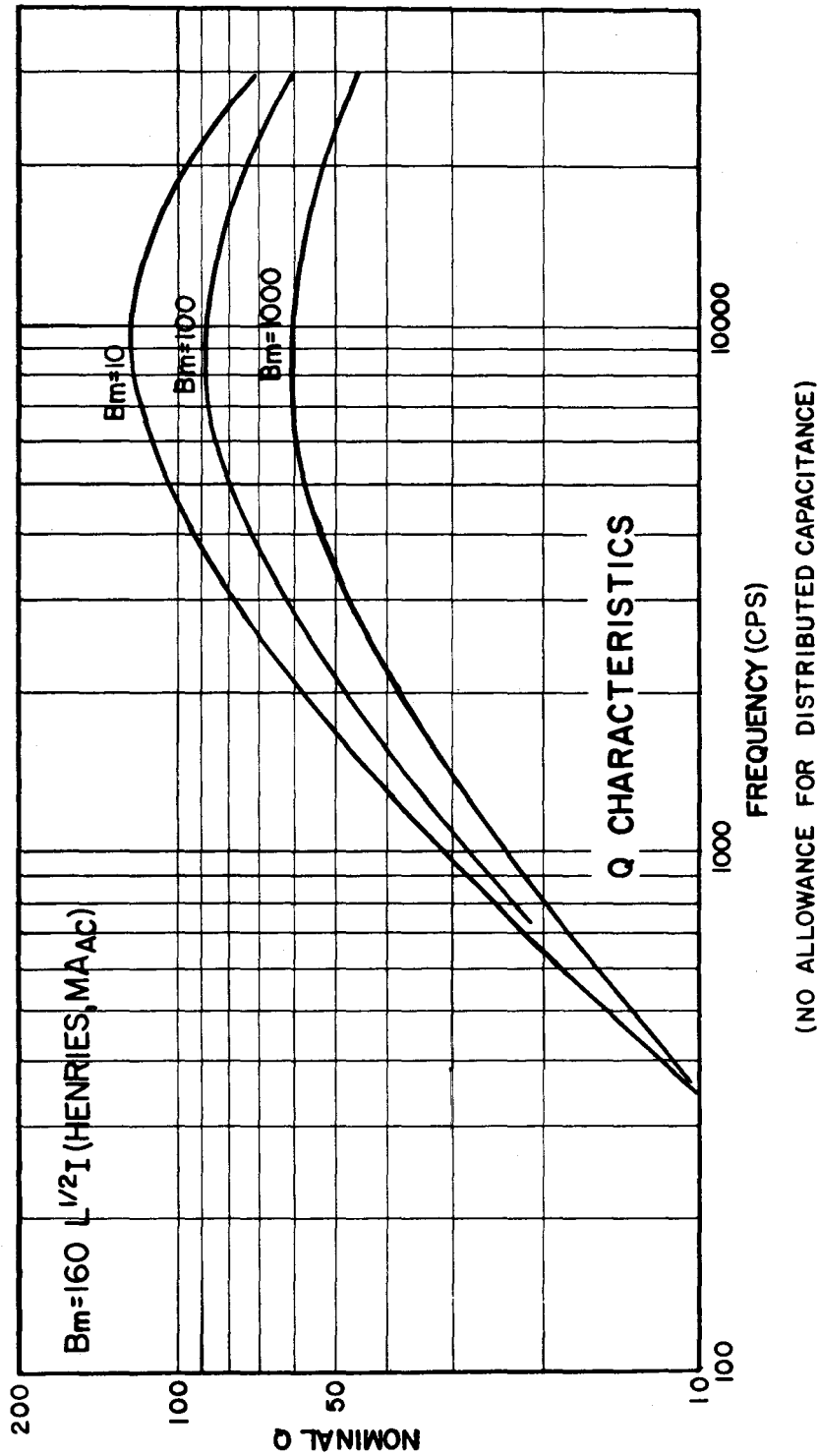
1573 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
641.9	654.7	(1-2)	4	159.29	1573A
348.5	355.5	(1-2)	1.8	76.25	P
311.4	317.6	(1-2)	4	72.34	B
269.5	274.9	(1-2)	4	66.47	C
141.2	144.0	(1-2)	4	31.28	D
68.50	69.88	(1-2)	4	17.60	E
59.28	60.48	(1-2)	4	13.26	F
44.1	44.5	(1-2)	5.8	11.63	G
41.5	43.1	(1-2)	.9	9.35	M
39.6	40.0	(1-2)	5.8	8.89	H
28.2	29.2	(1-2)	.9	6.07	L
17.6	18.4	(1-2)	.9	3.8	N

sa - Series aiding
pa - Parallel aiding

1577 TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
2000	2200 (nom)	(1-2)	.9	467.50	1577BD
2180	2280	(1-2)	.9	485	BN
854	890	(1-2)	.9	188	BM
427	435	(1-2)	.6	103.62	J
411.4	419.6	(1-2)	.7	99.71	A
376.2	383.8	(1-2)	.7	96.05	L
373	381	(1-2)	1.2	78.20	C
336.6	343.4	(1-2)	.8	74.55	N
321	327	(1-2)	1.8	73.27	E
304.9	311.1	(1-2)	.9	70.38	R
236.6	241.4	(1-2)	1.1	49.46	T
235.6	240.4	(1-2)	2.5	49.81	G
220.8	225.2	(1-2)	1.2	48.28	W
206	210	(1-2)	1.3	46.92	AA
194	198	(1-2)	1.3	45.39	AC
156.4	159.6	(1-2)	1.7	32.90	AE
148.5	151.5	(1-2)	1.8	32.22	AG
142.6	145.4	(1-2)	1.8	31.28	AJ
136.2	139.4	(1-2)	1.9	30.69	AL
127.6	130.3	(1-2)	.6	29.33	K
113.9	116.1	(1-2)	.7	28.05	B
112.9	115.1	(1-2)	.7	28.14	M
112.4	114.6	(1-2)	2.3	27.88	AN
108.4	110.6	(1-2)	2.4	27.12	AR
105	107	(1-2)	2.5	26.61	AT
101	103	(1-2)	.8	26.27	P
91.4	93.2	(1-2)	.9	20.32	S
79.2	80.8	(1-3)	.9	19.5	BE
71.1	72.5	(1-2)	1.1	17.69	U
66.2	67.4	(1-2)	1.2	17.34	Y
61.9	63.1	(1-2)	1.3	13.60	AB
58.2	59.4	(1-2)	1.3	13.09	AD
46.8	47.8	(1-2)	1.7	11.73	AF
44.6	45.5	(1-2)	1.8	11.65	AH
42.7	43.5	(1-2)	1.8	9.18	AK
41.9	42.7	(1-2)	1.2	9.19	D
40.8	41.6	(1-2)	1.9	9.10	AM
39.6	40.4	(1-3)	.9	9.17	BF
33.7	34.3	(1-2)	2.3	8.25	AP
32.90	33.56	(1-2)	3.5	8.12	BA
32.6	33.2	(1-2)	2.4	8.11	AS
31.5	32.1	(1-2)	2.5	8.01	AU
28.60	29.18	(1-2)	3.5	5.19	BB
22.3	22.7	(1-2)	1.8	5.28	F
19.8	20.2	(1-3)	.9	5.08	BG
15.6	15.9	(1-2)	2.5	3.52	H
15.34	15.64	(1-2)	3.5	3.44	EC
9.9	10.1	(1-3)	.9	2.30	BH
6.074	6.194	(1-2)	3.8	1.47	BP
4.95	5.05	(1-3)	.9	1.09	BJ
2.178	2.222	(1-3)	.9	.69	BK
1.089	1.111	(1-3)	.9	.49	BL

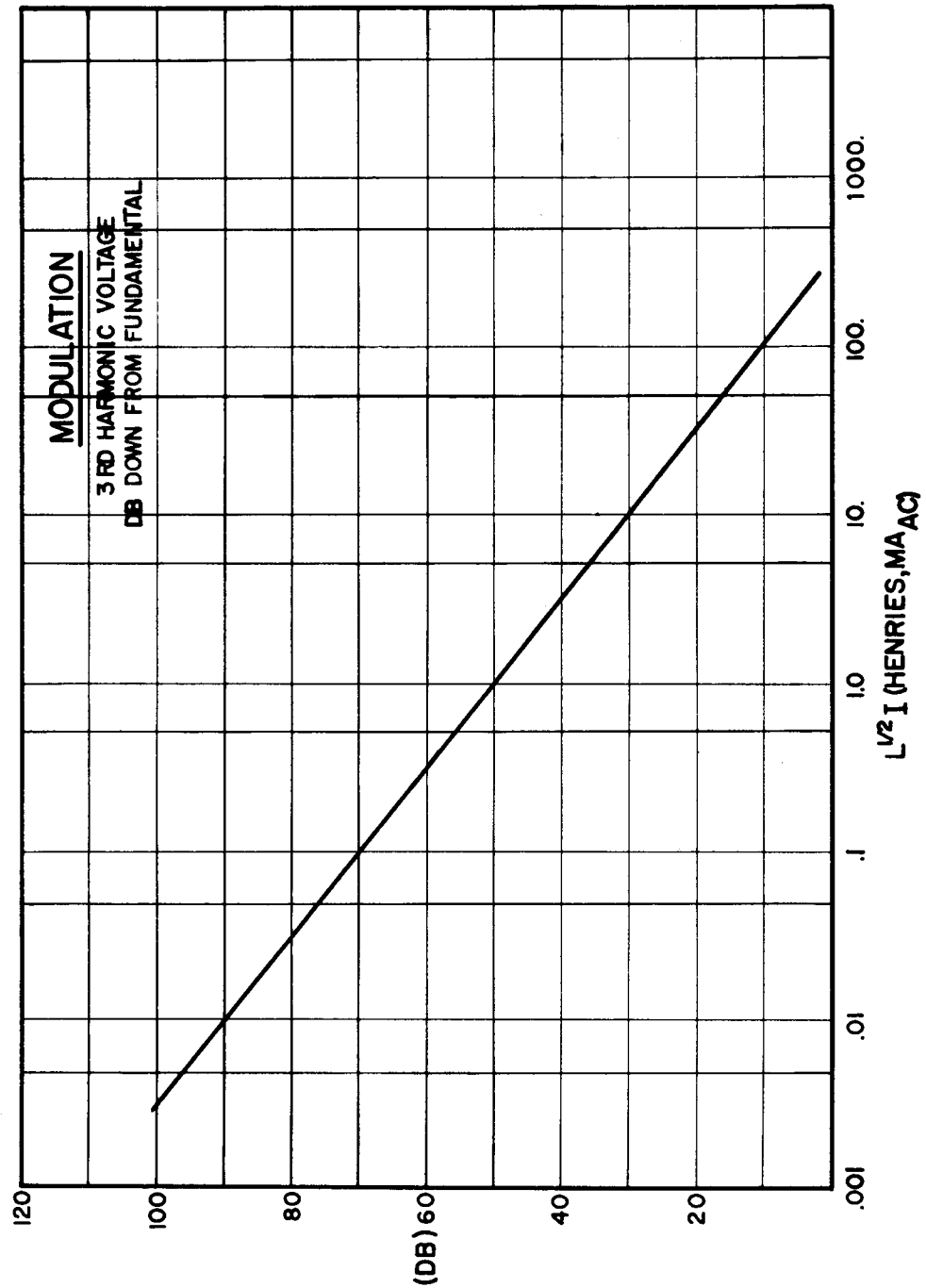
PERMALLOY POWDER CORE

125u .8" Core



PERMALLOY POWDER CORE

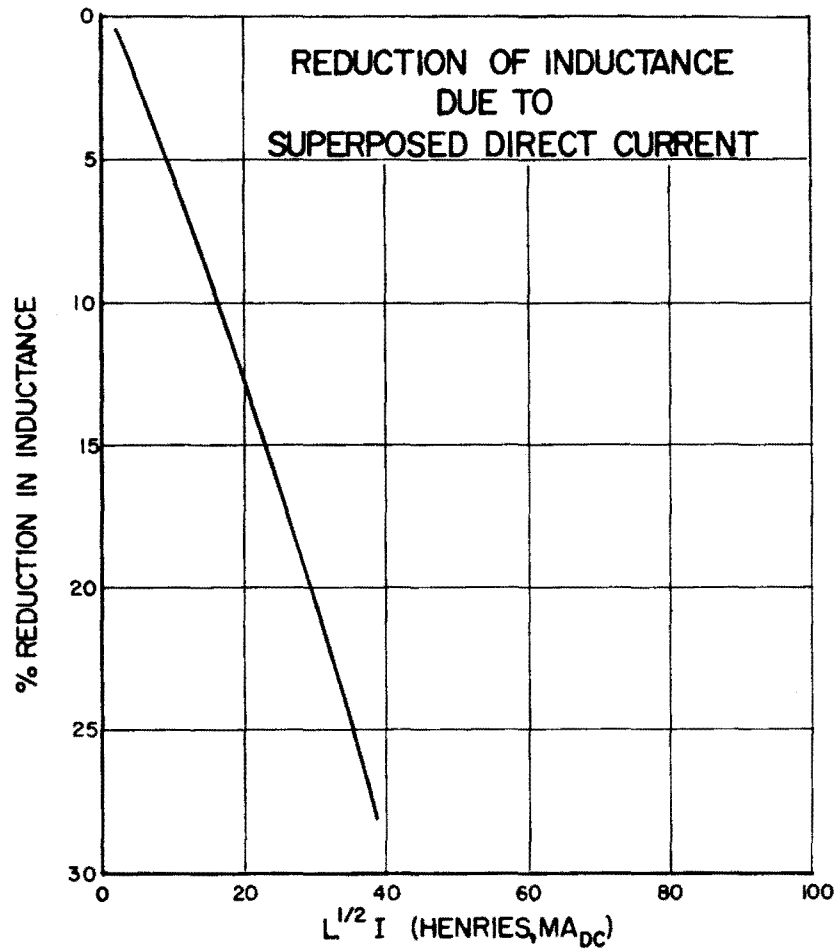
125u .8" Core



June 1962

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PERMALLOY POWDER CORE
125 u .8" Core



125 μ

The 1592-type inductors are fixed toroidal inductors each wound on a permalloy powder core having a permeability of 125, and potted with microcrystalline wax in a plastic case. These inductors are provided with wire terminals which are arranged for mounting on panels or printed wiring boards; they can also be stacked with other 1592-type inductors.

These inductors are family types; that is, they may be ordered in any inductance value from 0.00200 henry through 2.23 henries by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values for the 1592A and B inductors is ± 2 per cent, and ± 1 per cent for the 1592C inductor. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.0030 henry or 1.20 henries.

INTENDED USE

The 1592-type inductors are intended for use as general purpose inductors.

ELECTRICAL DATA

Electrical data for the various inductance values in which the 1592-type inductors may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance change with temperature is nominally about 1 per cent per 100° F.

The characteristics shown in Figs. 1, 2, and 3 for the 1592A and C inductors are determined when the inductors are tested between terminals 1 and 4, and for the 1592B inductor when the inductor is tested between terminals 1 and 4 with terminal 2 connected to terminal 3.

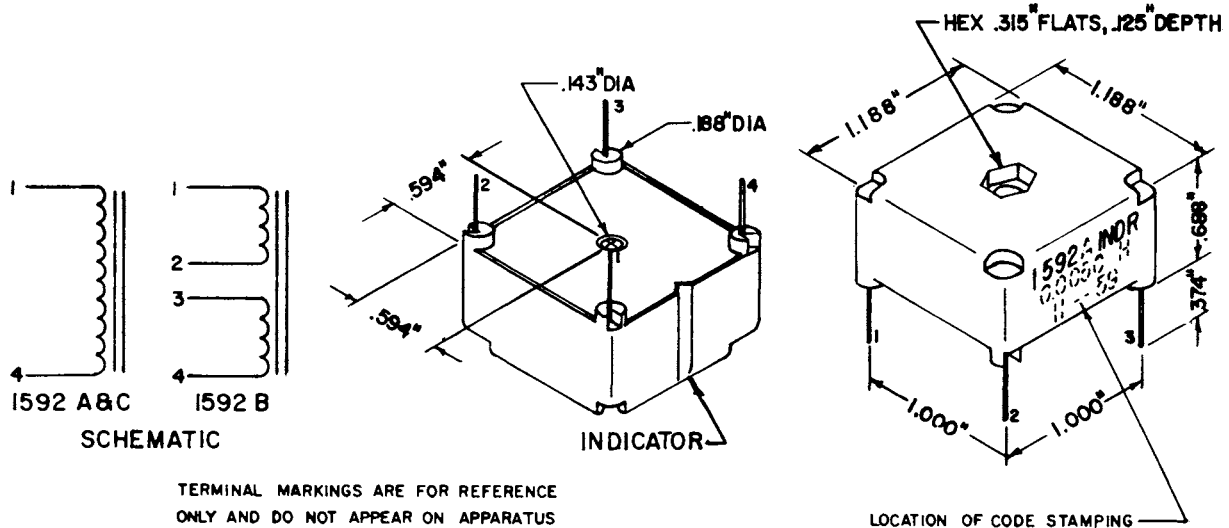


TABLE A - ELECTRICAL DATA							
Inductance*+				Q+			
Nominal at Test Freq	Test Freq	Test Current	Test Voltage	Minimum	Test Freq	Test Voltage	Approx DC Res+
henries	cps	amp ac	v ac		cps	v ac	ohms
0.00500	900	0.002		85	10,000	3	1.1
0.00770	900	0.002		85	10,000	3	1.7
0.0120	900	0.002		85	10,000	3	2.6
0.0180	900	0.002		85	10,000	3	3.8
0.0290	900	0.002		85	10,000	3	6.2
0.0420	900	0.002		85	10,000	3	9.5
0.0630	900	0.002		80	7,000	3	14.1
0.0970	900	0.002		80	7,000	3	21.6
0.160	900	0.002		80	7,000	3	35.4
0.240	900	0.002		80	7,000	3	52.8
0.370	900	0.002		80	7,000	3	80.2
0.550	900	0.002		80	7,000	3	120
0.870	900		3	80	7,000	3	194
1.45	900		3	65	5,000	3	312
2.23	900		3	65	5,000	3	494

Note: The inductance unbalance between terminals 1 and 2, and 3 and 4 for the 1592B inductor is 1 per cent maximum.

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests made between terminals 1 and 4 for the 1592A and C inductors, and for the 1592B inductor between terminals 1 and 4 with terminal 2 connected to terminal 3.

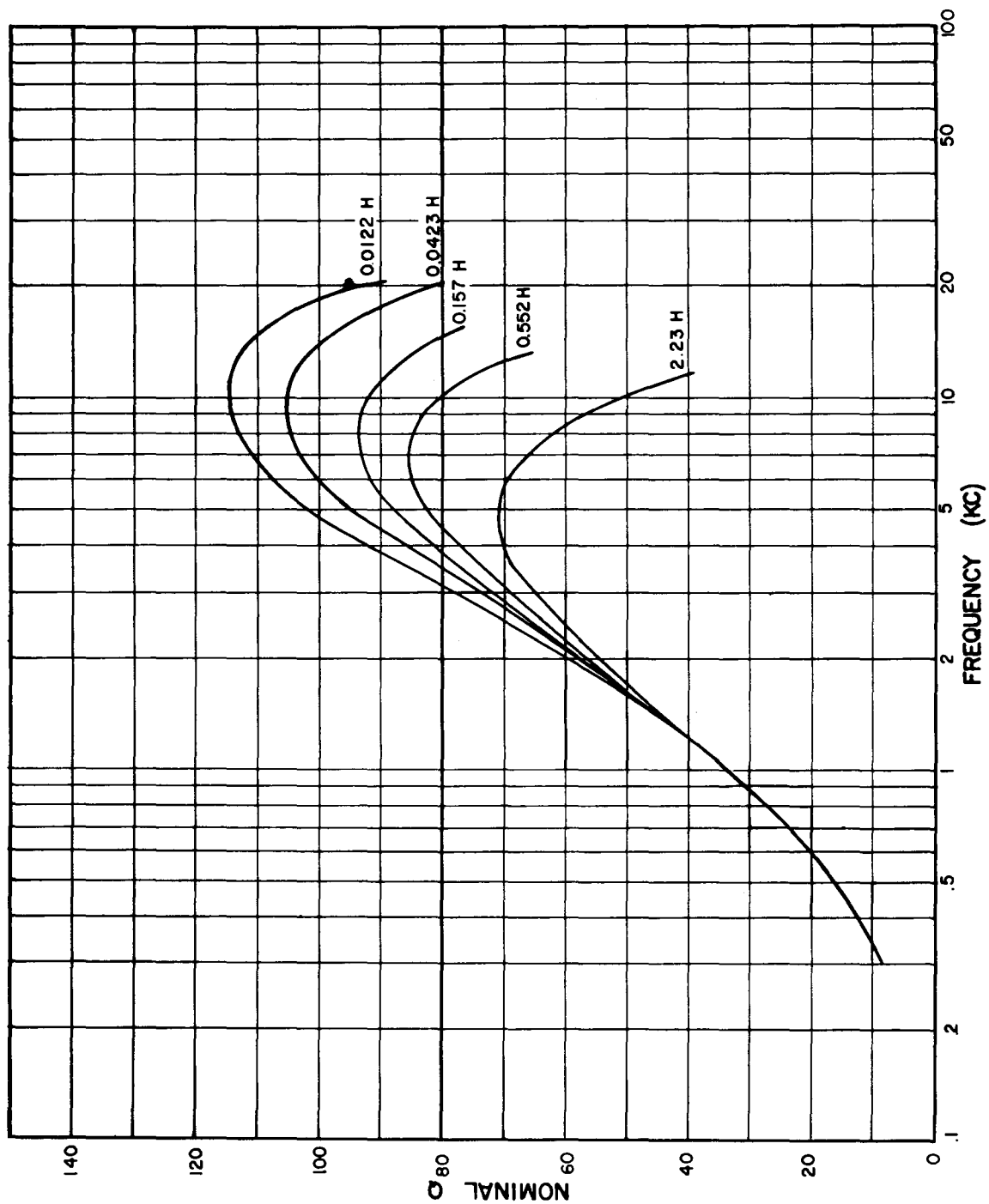


FIG. I
NOMINAL Q VS FREQUENCY

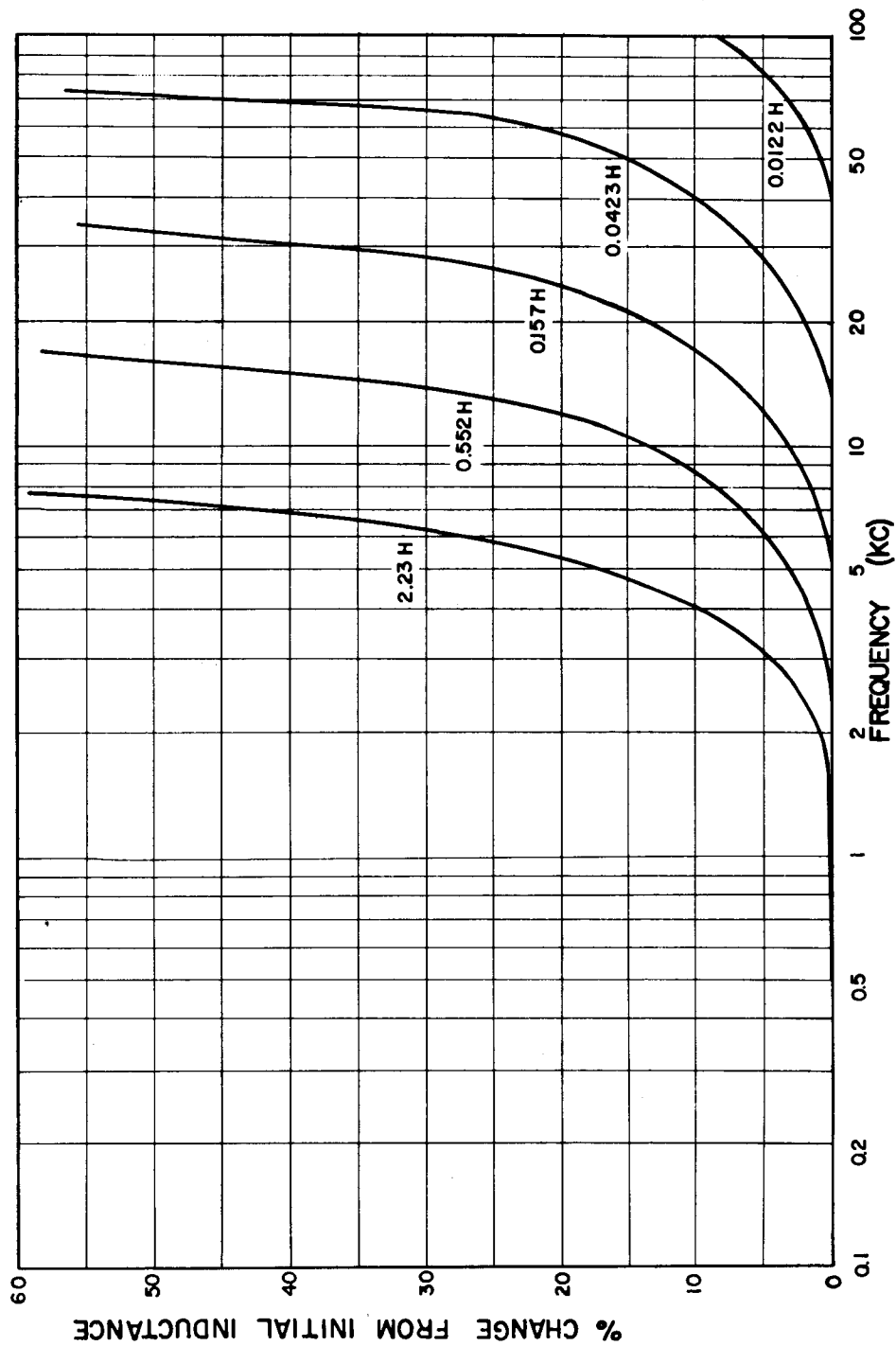


FIG. 2
% INCREASE IN INDUCTANCE WITH FREQUENCY

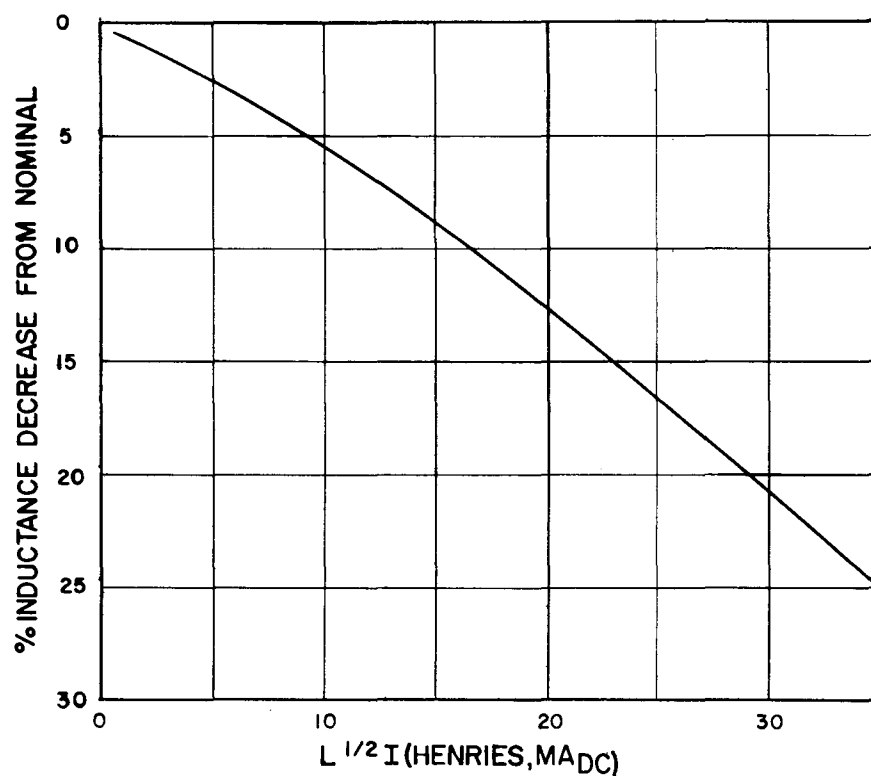


FIG. 3
REDUCTION OF INDUCTANCE . DUE TO
SUPERPOSED DIRECT CURRENT

125 u

The 1594-type inductors are fixed toroidal inductors each wound on a permalloy powder core having a permeability of 125, and potted with microcrystalline wax in a plastic case. These inductors are provided with flexible wire leads and can be stacked with other 1594-type inductors.

These inductors are family types; that is, they may be ordered in any inductance value from 0.00200 henry through 2.23 henries by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values for the 1594A inductor is ± 2 per cent, and ± 1 per cent for the 1594B inductor. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.0030 henry or 1.20 henries.

INTENDED USE

The 1594-type inductors are intended for general use.

ELECTRICAL DATA

Electrical data for the various inductance values in which the 1594-type inductors may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance change with temperature is nominally about 1 per cent per 100° F.

The characteristics of the 1594-type inductors are the same as those shown in Figs. 1, 2, and 3 for the 1592-type inductors on Pages II-53, 54, and 55. They are determined when the inductors are tested between leads red and red-white.

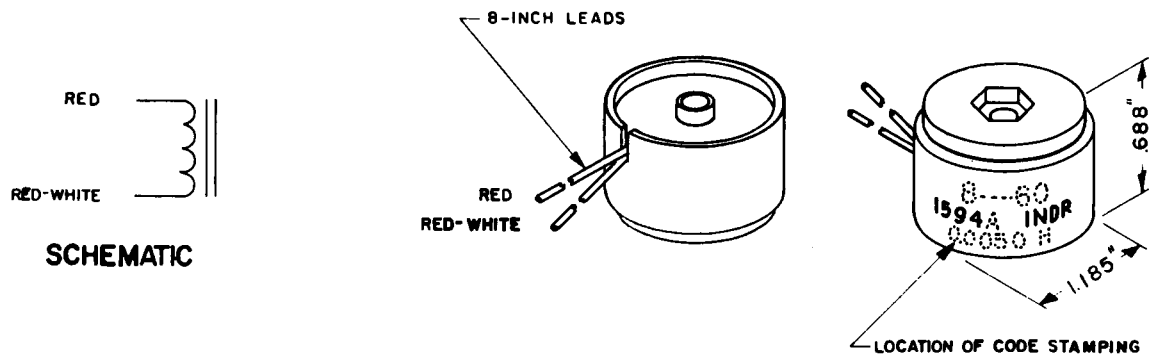


TABLE A - ELECTRICAL DATA							
Inductance**				Q+			
Nominal at Test Freq	Test Freq	Test Current	Test Voltage	Minimum	Test Freq	Test Voltage	Approx DC Res+
henries	cps	amp ac	v ac		cps	v ac	ohms
0.00500	900	0.002		85	10,000	3	1.1
0.00770	900	0.002		85	10,000	3	1.7
0.0120	900	0.002		85	10,000	3	2.6
0.0180	900	0.002		85	10,000	3	3.8
0.0290	900	0.002		85	10,000	3	6.2
0.0420	900	0.002		85	10,000	3	9.5
0.0630	900	0.002		80	7,000	3	14.1
0.0970	900	0.002		80	7,000	3	21.6
0.160	900	0.002		80	7,000	3	35.4
0.240	900	0.002		80	7,000	3	52.8
0.370	900	0.002		80	7,000	3	80.2
0.550	900	0.002		80	7,000	3	120
0.870	900		3	80	7,000	3	194
1.45	900		3	65	5,000	3	312
2.23	900		3	65	5,000	3	494

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests made between leads red and red-white.

125 u

The 1589-type inductors are fixed toroidal inductors wound on a permalloy powder core having a permeability of 125, and are potted in a plastic case. The 1589A and B inductors are potted with microcrystalline wax, and the 1589C inductor is potted with epoxy resin. They are provided with wire terminals which are arranged for mounting on panels or printed wiring boards; They can also be stacked with other 1589-type inductors.

These inductors are family types; that is, they may be ordered in any inductance value from 0.00100 henry through 0.460 henry by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values is ± 5 per cent for the 1589A and B inductors, and ± 2 per cent for the 1589C inductor. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.010 henry or 0.185 henry.

The 1589A and C inductors each consist of a single winding; the 1589B inductor consists of a balanced pair of windings.

INTENDED USE

The 1589-type inductors are intended for use as general purpose inductors.

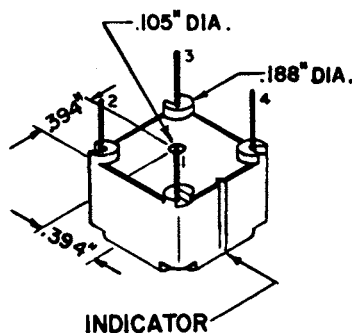
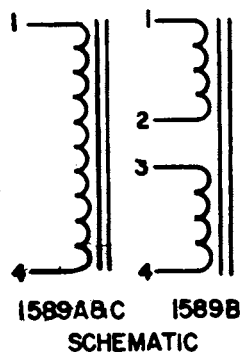
ELECTRICAL DATA

Electrical data for the various inductance values in which the 1589-type inductors may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance range with temperature is nominally about 1 per cent per 100° F.

The characteristics shown in Figs. 1, 2, and 3 for the 1589A and C inductors are determined when the inductor is tested between terminals 1 and 4, and for the 1589B inductor when the inductor is tested between terminals 1 and 4 with terminal 2 connected to terminal 3.



TERMINAL MARKINGS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON APPARATUS.

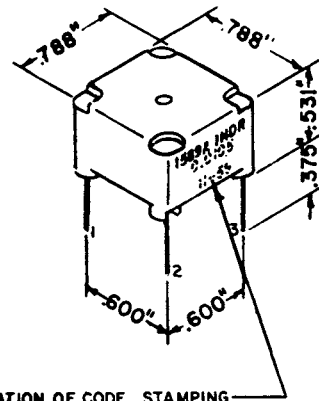


TABLE A - ELECTRICAL DATA						
Inductance**			Q+			
Nominal at Test Freq	Test Freq	Test Current	Minimum	Test Freq	Test Current	Approx DC Res+
henries	cps	amp ac		cps	amp ac	ohms
0.0105	900	0.002	75	20,000	0.002	4.2
0.0175	900	0.002	75	20,000	0.002	8.6
0.0270	900	0.002	75	20,000	0.002	13.7
0.0355	900	0.002	75	20,000	0.002	18.4
0.0625	900	0.002	75	15,000	0.002	31.8
0.0860	900	0.002	75	15,000	0.002	42.3
0.185	900	0.002	75	12,500	0.002	85
0.255	900	0.002	65	12,500	0.002	141
0.340	900	0.002	55	10,000	0.002	200
0.460	900	0.002	45	10,000	0.002	270

Note: The inductance unbalance between terminals 1 and 2, and 3 and 4 for the 1589B inductor is 1 per cent maximum.

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests for the 1589A and C inductors are made between terminals 1 and 4, and for the 1589B inductor between terminals 1 and 4 with terminal 2 connected to terminal 3.

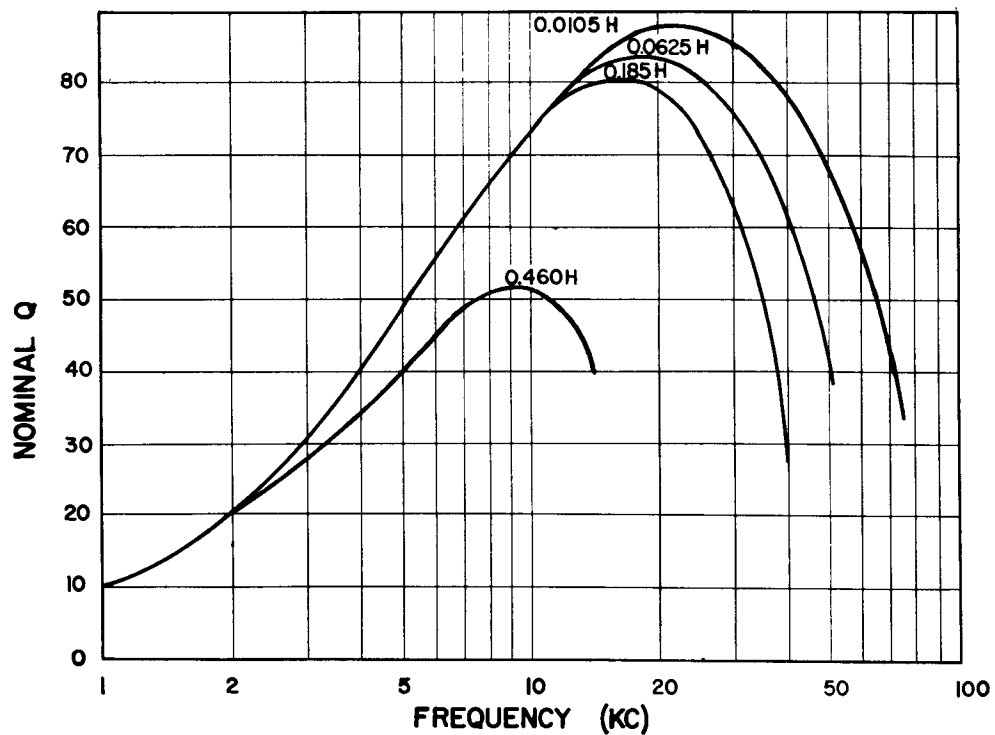


FIG. 1
NOMINAL Q VS FREQUENCY

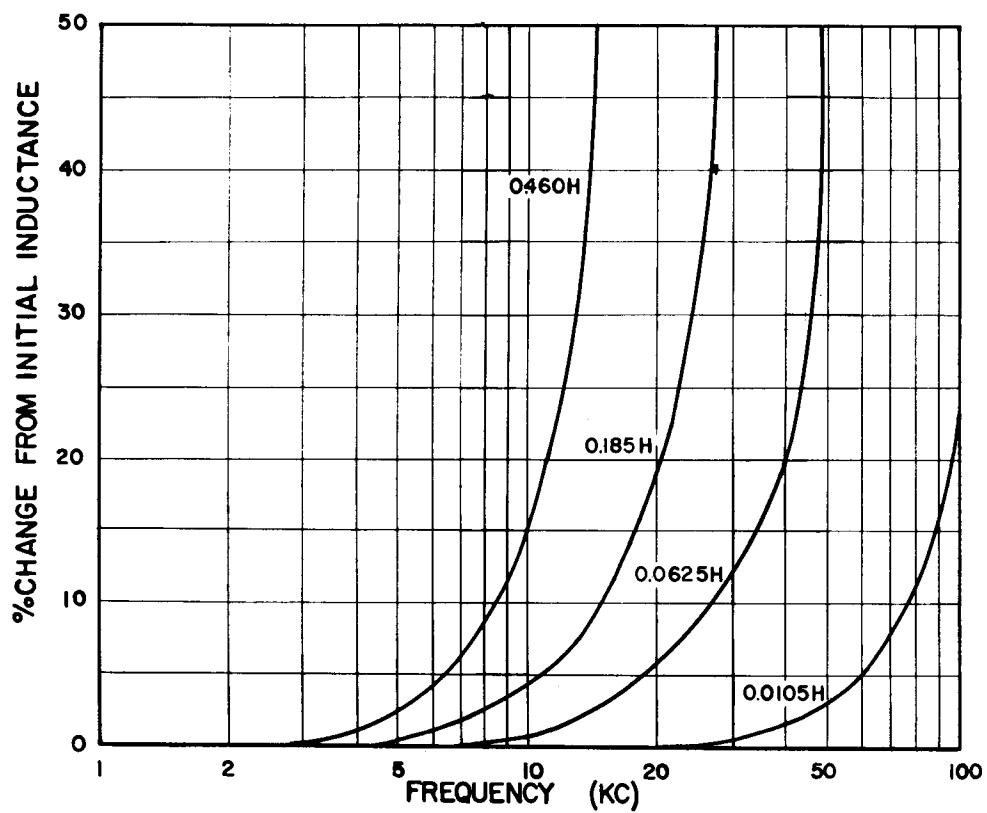


FIG. 2
% INCREASE IN INDUCTANCE WITH FREQUENCY

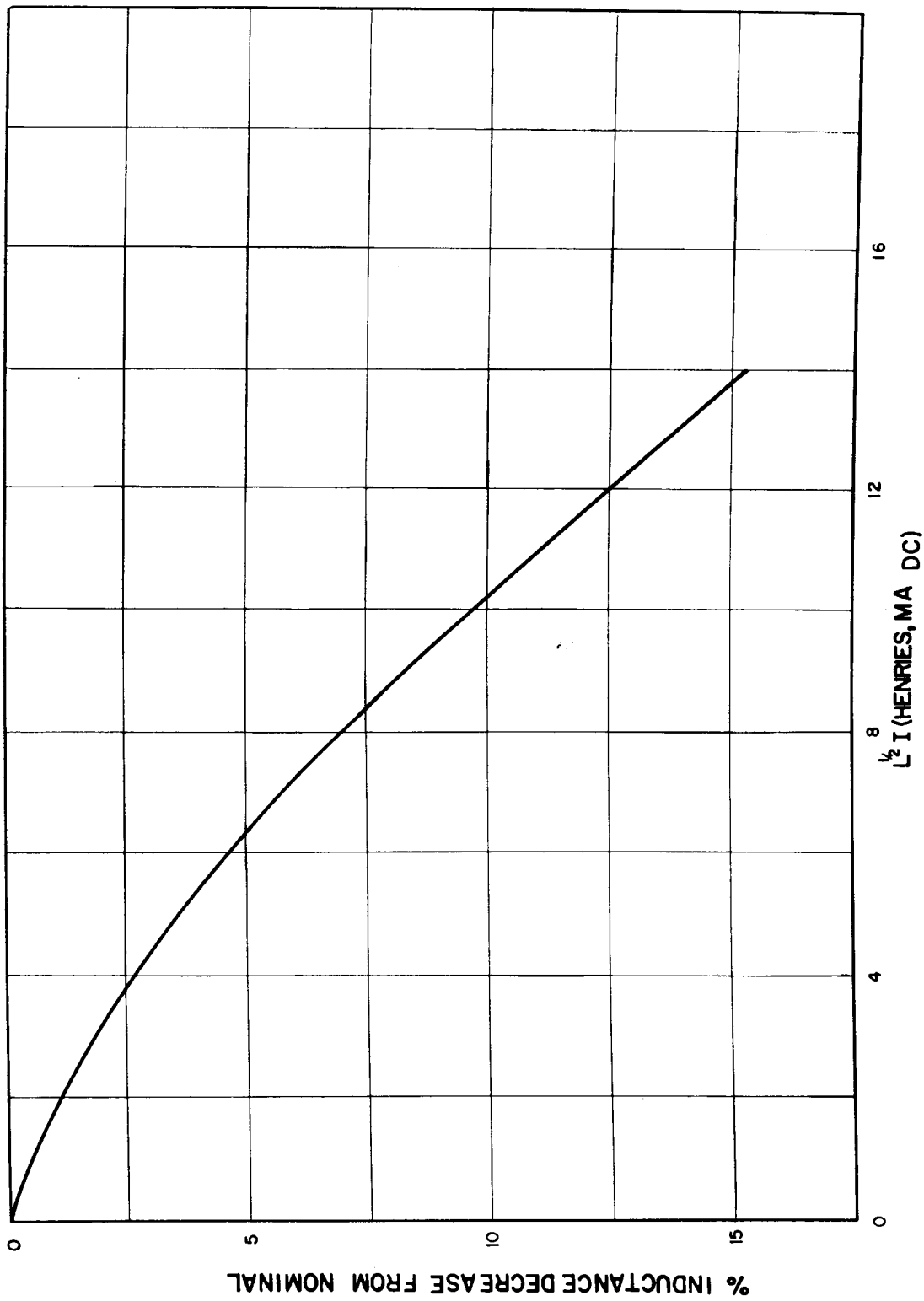


FIG. 3
REDUCTION OF INDUCTANCE DUE TO
SUPERPOSED DIRECT CURRENT

125 u .38"

The 1588-type inductors are fixed toroidal inductors each wound on a permalloy powder core having a permeability of 125, and are potted in a plastic case. The 1588A inductor is potted in microcrystalline wax, and the 1588B inductor is potted with epoxy resin. They are provided with wire terminals for mounting on printed wiring boards.

These inductors are family types; that is, they may be ordered in any inductance value from 0.00100 henry through 0.160 henry by specifying the code number and the nominal inductance value in henries. The nominal inductance value will be stamped on the inductor below the code number. The inductance tolerance for all values is ± 5 per cent for the 1588A inductor, and ± 2 per cent for the 1588B inductor. The nominal inductance value shall be specified in henries to not less than two nor more than three significant figures, e.g., 0.095 henry or 0.00790 henry.

INTENDED USE

The 1588-type inductors are intended for use as general purpose inductors.

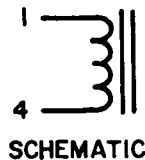
ELECTRICAL DATA

Electrical data for the various inductance values in which the 1588-type inductors may be obtained are shown in Table A.

CHARACTERISTICS

Per cent inductance change with temperature is nominally about 1 per cent per 100° F.

The characteristics shown in Figs. 1, 2, and 3 are determined when the inductors are tested between terminals 1 and 4



TERMINAL MARKINGS ARE FOR REFERENCE ONLY AND DO NOT APPEAR ON APPARATUS

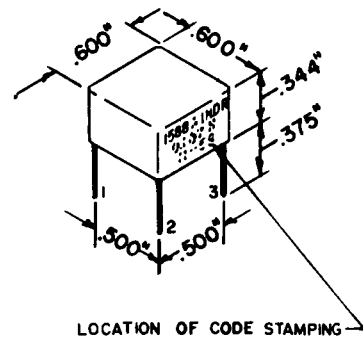
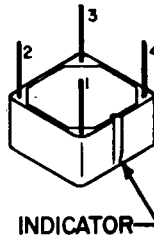


TABLE A - ELECTRICAL CHARACTERISTICS						
Inductance *+			Q+			
Nominal at Test Freq	Test Freq	Test Current	Minimum	Test Freq	Test Current	Approx DC Res+
henries	cps	amp ac		cps	amp ac	ohms
0.00790	900	0.002	45	25,000	0.002	11.1
0.0185	900	0.002	45	25,000	0.002	22.6
0.0266	900	0.002	45	25,000	0.002	36
0.0481	900	0.002	45	25,000	0.002	58
0.0596	900	0.002	40	20,000	0.002	83.3
0.107	900	0.002	40	20,000	0.002	143
0.160	900	0.002	40	20,000	0.002	211

* Nominal inductance values for optimum Q at low frequencies.

+ Inductance, Q, and dc resistance tests made between terminals 1 and 4.

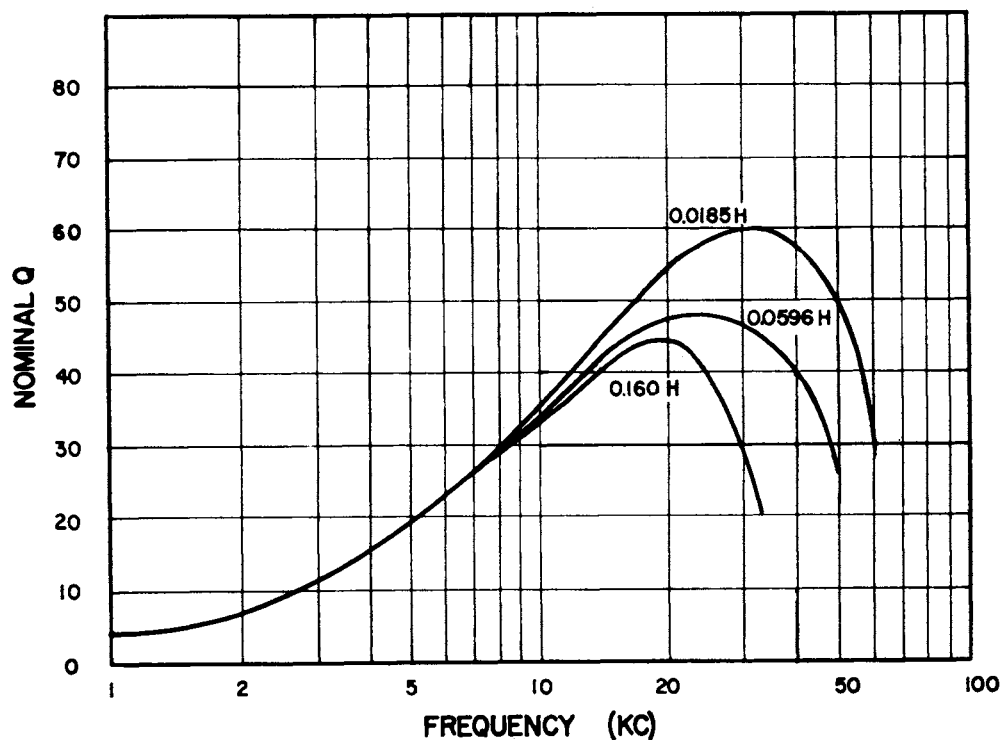


FIG.1
NOMINAL Q VS FREQUENCY

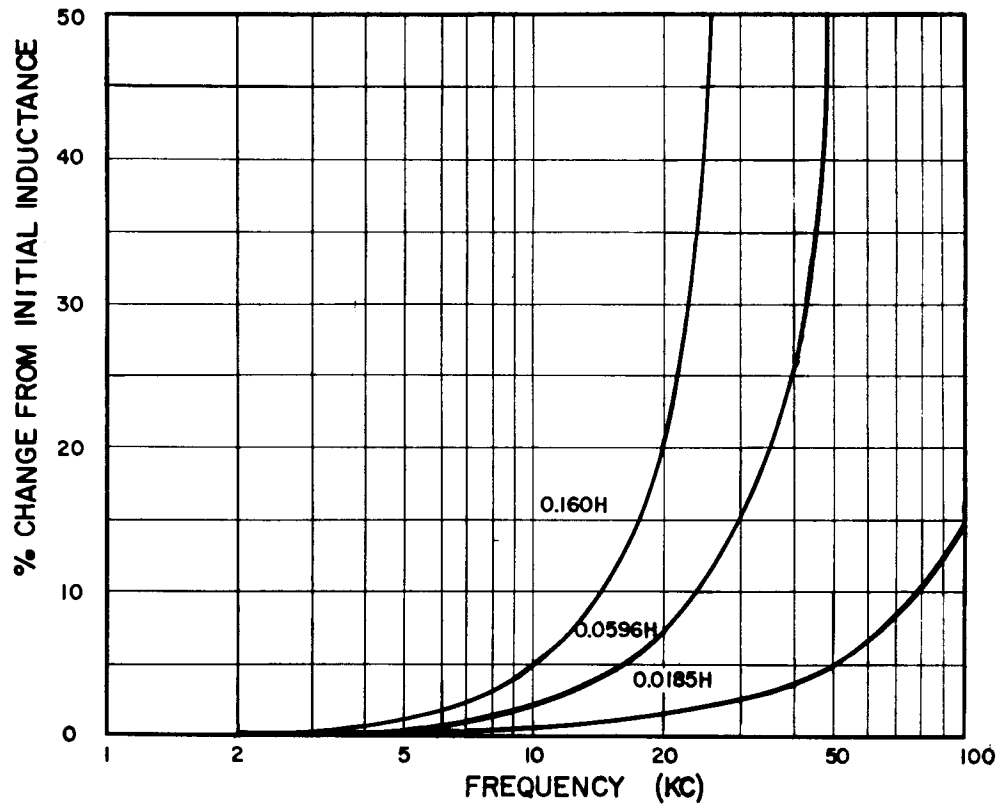
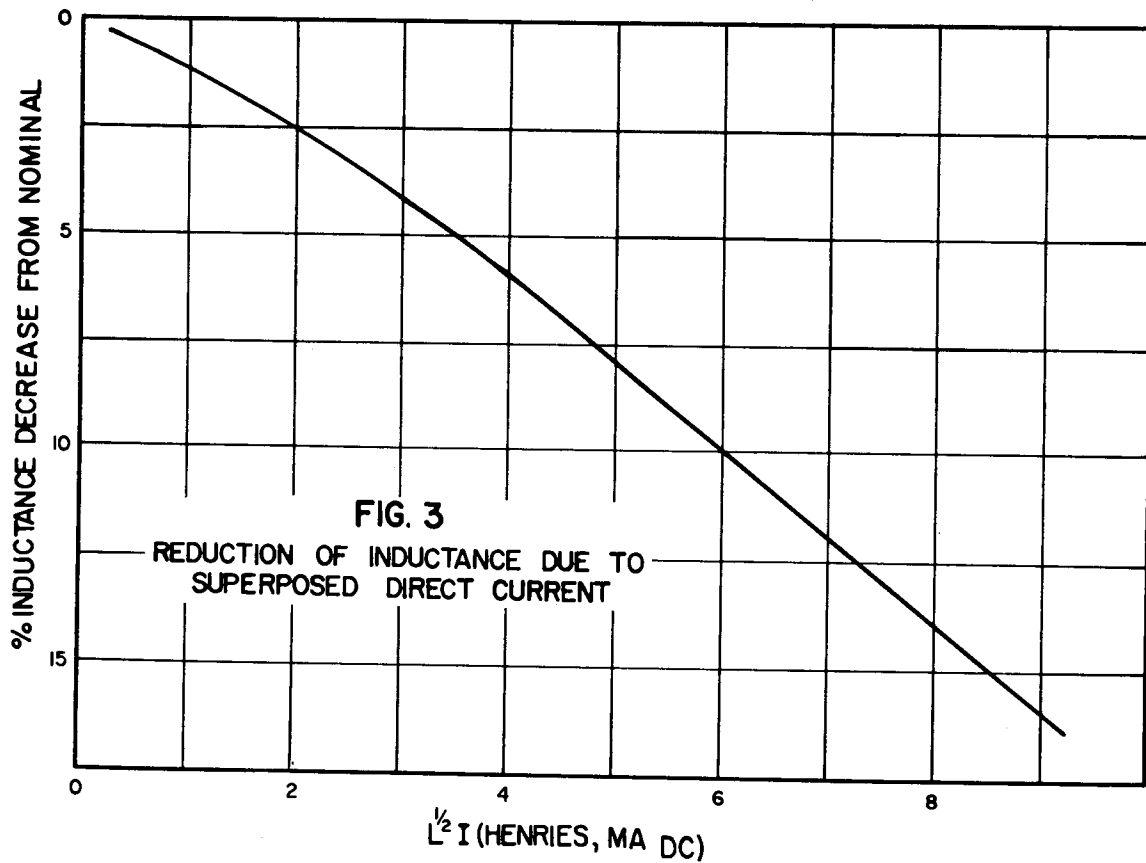
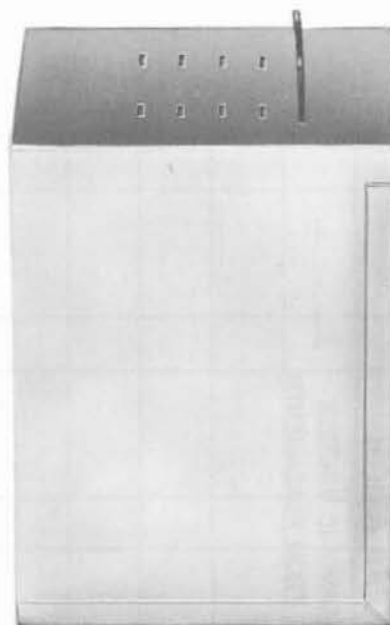


FIG. 2
% INCREASE IN INDUCTANCE WITH FREQUENCY



60 μ 1.84" INDUCTOR

The H1A type inductor is a toroidal type wound on a molybdenum permalloy powder core. It is intended for use in apparatus assemblies not subject to repair in the field.



Approximate Dimensions
(Inches)

L	W	H
2-13/32	1-13/32	3-3/8

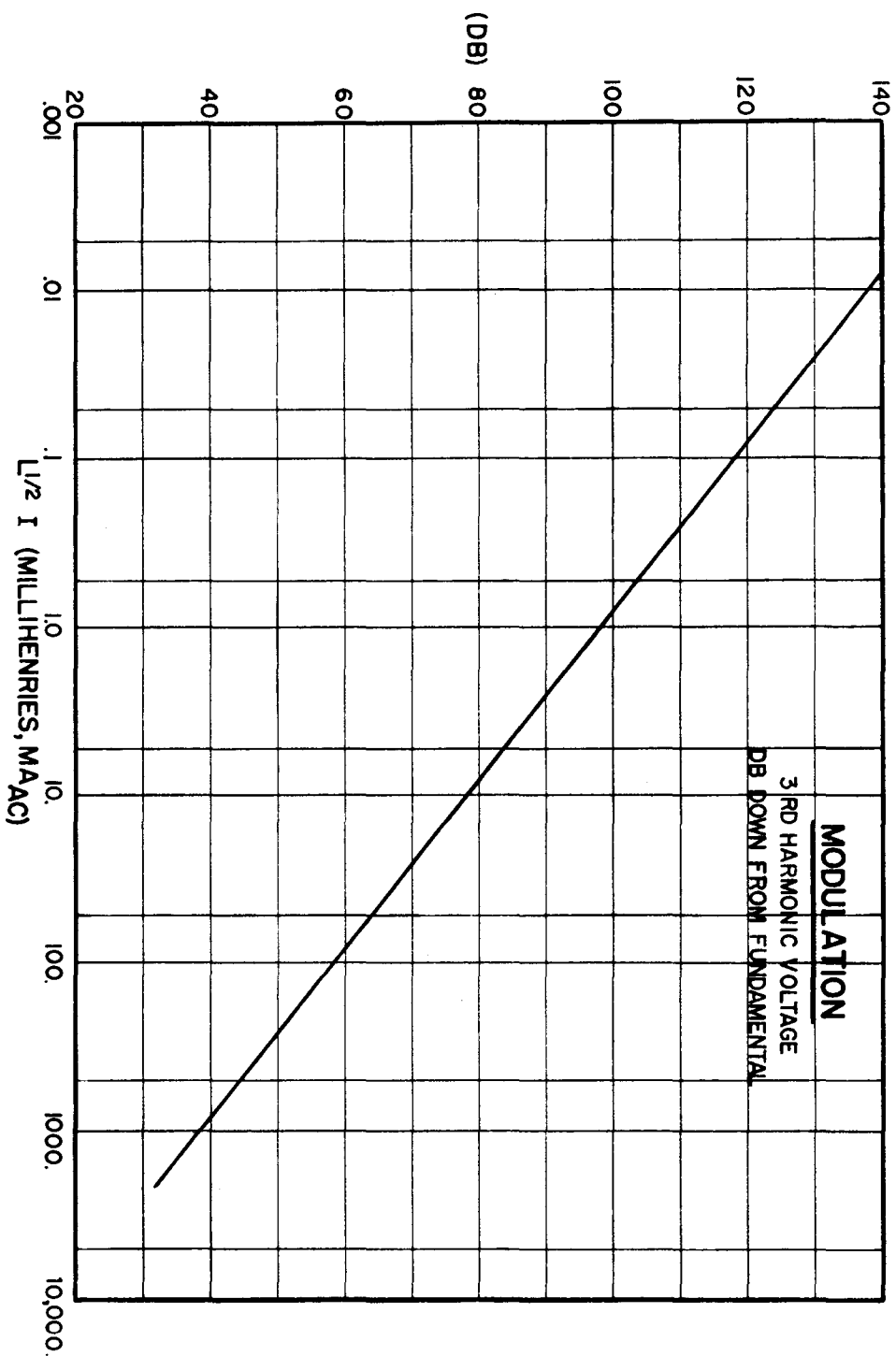


Nominal Performance Data

Frequency range: 5 kc to 40 kc
Types of winding: Single or balanced
Inductance unbalance between windings: $\pm 1\%$
Inductance range (Series aiding): 5 millihenries to 5 henries (See Note 1)
Initial inductance adjustment (Specify f and I): $\pm 1\%$
DC Resistance: 75 ohms per henry
Distributed capacitance: 200 mmf
Max recommended AC + DC voltage: 200
Max recommended power dissipation: 3 watts
Change of inductance with temperature: $\pm 0.2\%$ at central office temperatures
Q, modulation, superposed DC: (See characteristics)

Note 1 Inductance values on existing codes are shown on table.

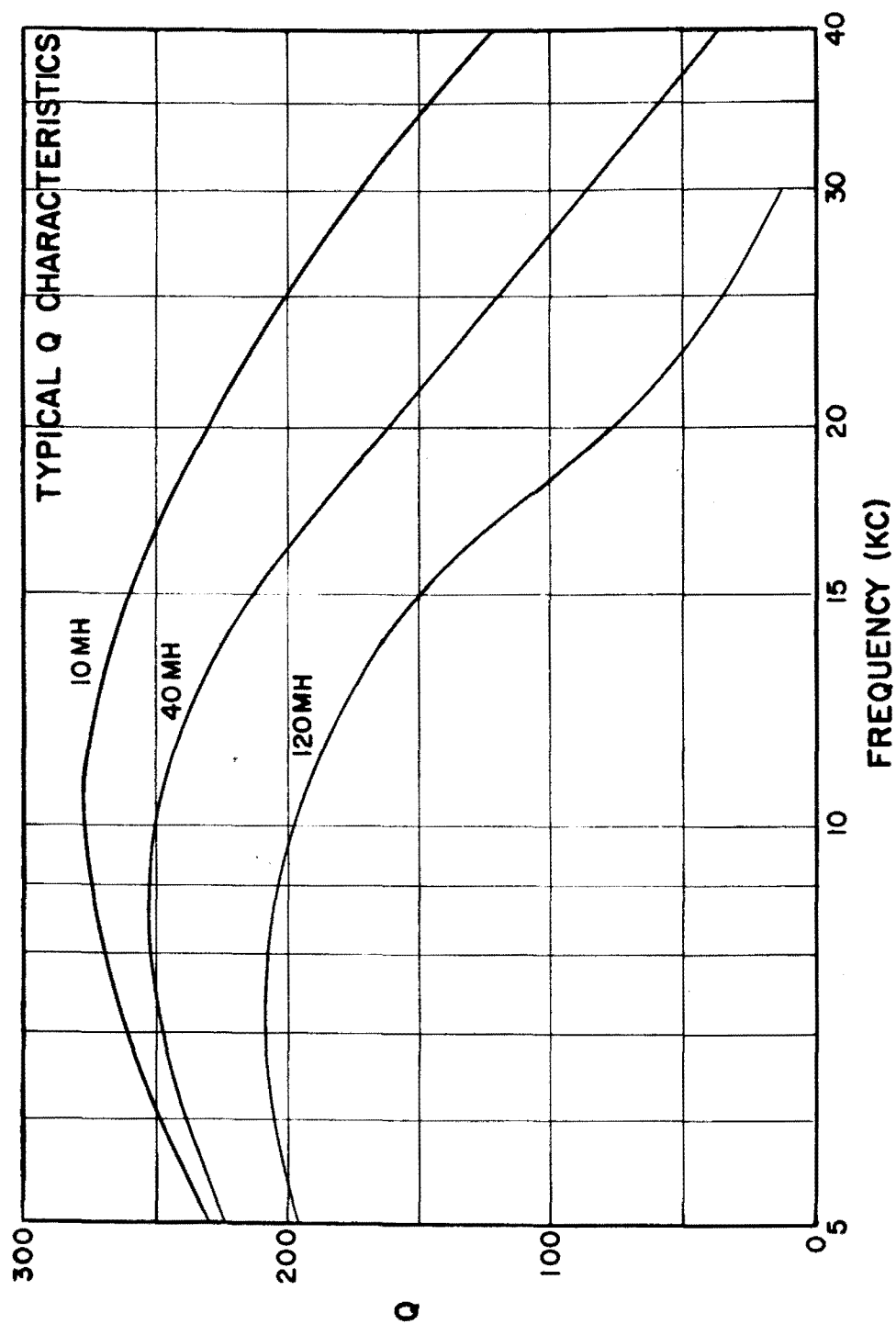
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
225.0	227.3	(1-2)(3-4)	3.6	19.5	H1A6
15.28	15.58	(1-2)	6	1.6	4
12.73	12.99	(1-2)	6	1.4	2
9.16	9.36	(1-2)	6	.96	1
7.82	7.98	(1-2)(3-4)	3.6	1.34	5
4.29	4.37	(1-2)	6	.5	3



PERMALLOY POWDER CORE
60u 1.84" Core

PERMALLOY POWDER CORE

60u 1.84" Core

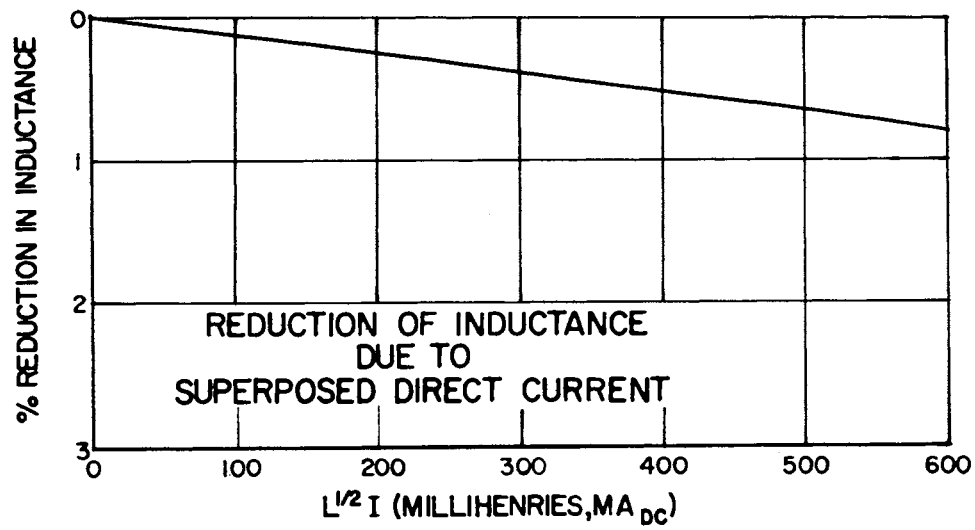


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PERMALLOY POWDER CORE

60u 1.84" Core



26μ 1.3" INDUCTORS					
Code	Fig.	Approximate Dimensions (Inches)			Distance Between Mounting Studs (Inches)
		A	B	C	
G1G	DB	2-17/32	1-5/32	2-17/32	1-1/2
G1H	DF	1-7/8	1-1/16	2	
G1K	DD	1-13/16	1-1/32	2-1/32	1-45/64
G1L	DE	1-7/8	1-1/32	2	
G1M	DA	1-13/32	1-13/32	3-7/16	
G1P	DC	1-13/16	1-13/32	2-9/16	
N1A	DG	1-5/8		7/8	

All the above inductors are toroidal types wound on a molybdenum permalloy powder core. They are intended for use in apparatus assemblies not subject to repair in the field. A capacitor as shown in Fig. DD for the G1K type may be furnished with each inductor depending upon particular code.

Nominal Performance Data

Frequency range: 30 kc to 60 kc

Types of windings: Single or balanced (See Note 1)

Inductance unbalance between windings: $\pm 1\%$

Inductance range: (Series aiding) 1 to 650 millihenries (See Note 2)

Initial inductance adjustment: (Specify f and I) $\pm 1\%$

DC Resistance: 0.6 ohm per millihenry

Distributed Capacitance: 11 to 13 mmf (Modified bank winding)
8 to 100 mmf (Layer winding)

Max recommended AC + DC voltage: 200

Max recommended power dissipation: 1 watt

Change of inductance with temperature: $\pm 0.2\%$ at Central Office temperatures

Q, Modulation, Superposed DC: (See Characteristics)

Note 1 Series aiding connection (1-2)(3-4)

Note 2 Inductances corresponding to full windings of limiting wire gauges are as follows:

26 GA	8.5 millihenries
36 GA	650. millihenries
7-40 GA	20. millihenries

G1G TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
94.94	96.66	(1-2)	15	60	G1G4
22.27	22.73	(1-2)	10	14.4	3
2.512	2.566	(1-2)	20	1.4	1
1.027	1.041	(1-2)	17	.55	2

G1H TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
7.197	7.343	(1-2)	10	5.2	G1H1

G1K TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Max DCR Ohms	Code
Min	Max				
14.6	--	(1-2)	2	72.1	G1K12
11.25	11.47	(1-2)	12	7.3	9
9.93	--	(1-2)	36	10.2	5
5.465	5.575	(1-2)	18	4	8
4.50	4.59	(1-2)	18	3.6	10
2.47	--	(1-2)	2	2	2
2.18	--	(1-2)	36	2	4
2.12	--	(1-2)	2	1.9	3
1.331	1.357	(1-2)	60	1.8	7
.506	.516	(1-2)	36	.5	6
.495	--	(1-2)	2	.5	1
.19	--	(1-2)	2	.25	11

G1L TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
78.4	81.6	(1-2)	10	41.7	G1L7
14.10	14.38	(1-2)	40	14.2	6
13.69	14.05	(1-2)	28	8.9	8
8.316	8.484	(1-2)	10	5.7	3
7.197	7.343	(1-2)	10	5.2	1
4.554	4.646	(1-2)	24	2.8	2
3.96	4.04	(1-2)	26	2	5
3.267	3.333	(1-2)	20	1.8	4

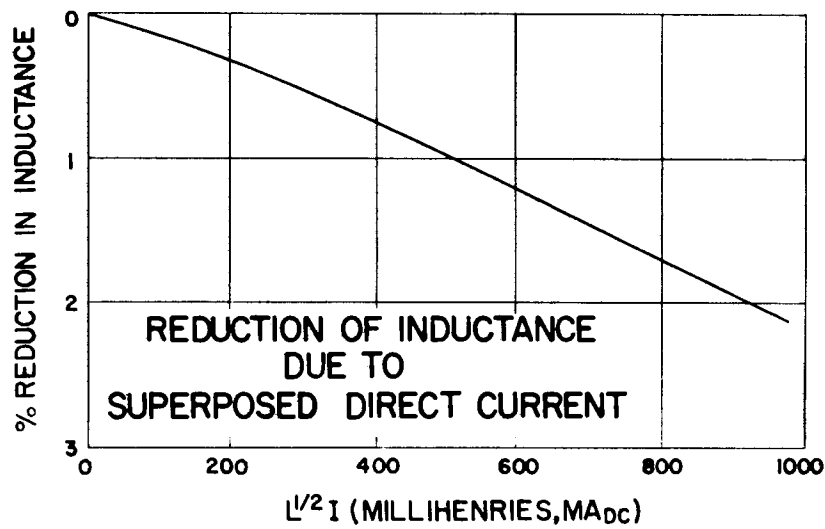
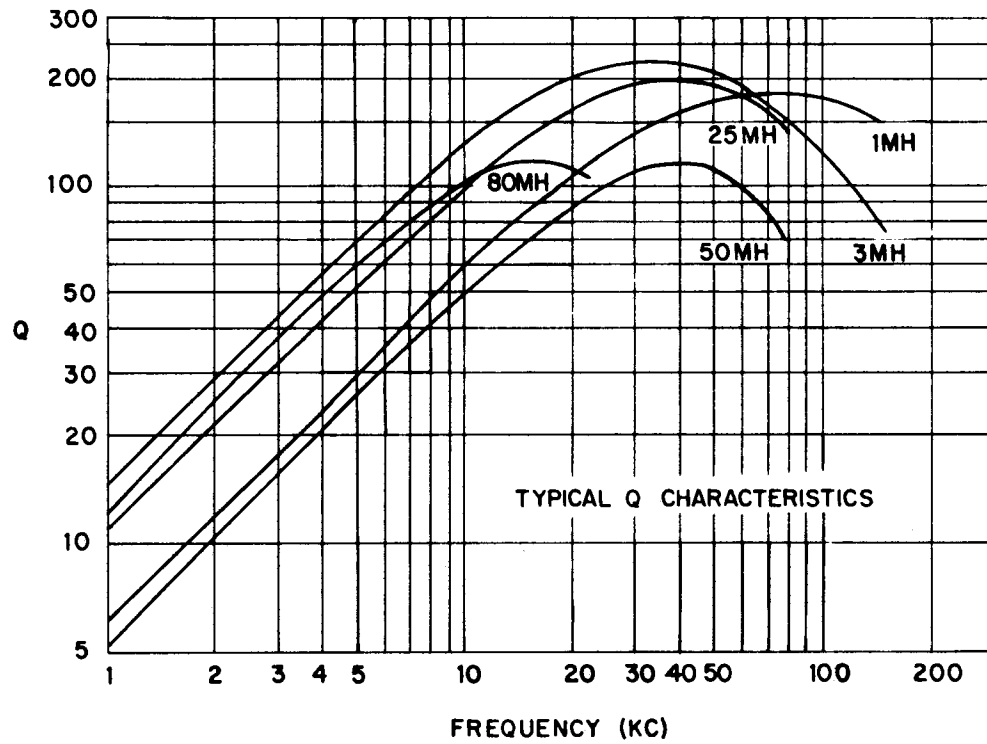
G1M TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
63.14	64.54	(1-2)	8.6	28.39	G1M 6
63.1	64.5	(1-2)	8.6	28.48	15
45.04	45.94	(1-2)	5.3	19.05	13
43.46	44.42	(1-2)	5.3	18.79	10
43.2	44.2	(1-2)	4	21.25	18
40.6	41.6	(3-4)	4	18.87	18
39.7	40.6	(1-2)	8.6	18.02	16
39.47	40.35	(3-4)	5.3	17.77	10
39.42	40.30	(3-4)	5.3	17.77	13
35.74	36.54	(3-4)	8.6	13.69	6
35.3	36.2	(3-4)	8.6	13.52	16
32.15	32.87	(1-2)	5.3	12.92	8
27.99	28.61	(3-4)	7	12.41	19
27.97	28.59	(1-2)	5.3	11.9	11
27.34	27.94	(1-2)	5.3	11.73	19
27.20	27.80	(1-2)	5.3	11.73	12
26.3	26.9	(1-2)	8.6	11.48	17
25.63	26.19	(1-2)	8.6	9.1	5
25.02	25.58	(1-2)	5.3	9.01	9
24.04	24.56	(1-2)	8.6	8.67	7
23.95	24.47	(1-2)	8.6	8.67	14
23.50	24.02	(3-4)	5.3	8.67	9
20.27	20.73	(3-4)	7	8.41	7
16.90	17.32	(3-4)	8.6	7.32	15
10.37	10.63	(3-4)	7	4.76	14
9.528	9.720	(1-2)	40	12	2
6.679	6.843	(3-4)	5.3	2.89	11
6.50	6.66	(3-4)	5.3	2.3	12
3.35	3.42	(1-2)	40	3.9	3
2.915	2.970	(1-2)	40	3.7	4
2.835	2.895	(3-4)	40	3.6	4
2.522	2.584	(3-4)	8.6	1.11	5
2.51	2.57	(3-4)	8.6	1.11	17
2.144	2.196	(3-4)	7	1.11	8
.855	.873	(3-4)	40	1.2	2
.764	.778	(1-2)	60	1	1
.664	.678	(3-4)	40	1	3

G1P TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
46.89	47.83	(1-2)(3-4)	16	65	G1P2
.962	.982	(1-2)(3-4)	16	1	1

N1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
63.14	64.54	(1-2)	8.6	28.39	N1A22
63.1	64.5	(1-2)	8.6	28.48	41
45.04	45.94	(1-2)	5.3	19.04	34
43.46	44.42	(1-2)	5.3	18.79	29
43.2	44.2	(1-2)	4	21.25	47
40.6	41.6	(1-2)	4	18.87	48
39.7	40.6	(1-2)	8.6	18.02	44
39.47	40.35	(1-2)	5.3	17.77	30
39.42	40.30	(1-2)	5.3	17.77	35
35.74	36.54	(1-2)	8.6	13.69	21
35.3	36.2	(1-2)	8.6	13.52	43
32.15	32.87	(1-2)	5.3	12.92	26
28.66	29.30	(1-2)	6.5	11.9	51
27.99	28.61	(1-2)	7	12.41	39
27.97	28.59	(1-2)	5.3	11.9	32
27.34	27.94	(1-2)	5.3	11.73	33
27.20	27.80	(1-2)	5.3	11.73	37
26.3	26.9	(1-2)	8.6	11.48	46
25.63	26.19	(1-2)	8.6	9.1	19
25.02	25.58	(1-2)	5.3	9.01	27
24.04	24.56	(1-2)	8.6	8.67	23
23.95	24.47	(1-2)	8.6	8.67	40
23.6	24.0	(1-2)	10	14.37	58
23.50	24.02	(1-2)	5.3	8.67	28
20.27	20.73	(1-2)	7	8.42	25
19.79	20.21	(1-2)(3-4)	6.5	7.91	53
16.90	17.32	(1-2)	8.6	7.31	42
15.72	16.06	(1-2)	12	9.27	10
11.36	11.52	(1-2)	25	9.86	57
11.18	11.42	(1-2)	6.5	5.95	52
10.37	10.63	(1-2)	7	4.76	38
7.85	8.03	(1-2)	12	5.19	11
7.49	7.63	(1-2)	10	8.08	56
6.679	6.843	(1-2)	5.3	2.89	31
6.51	6.67	(1-2)	32	2.98	13
6.50	6.66	(1-2)	5.3	2.3	36
2.522	2.584	(1-2)	8.6	1.11	20
2.51	2.57	(1-2)	8.6	1.11	45
2.144	2.196	(1-2)	7	1.11	24
1.04	1.06	(1-2)	60	1.87	55
.898	.911	(1-2)	25	1.79	54
.146	.149	(1-2)	3	.18	12

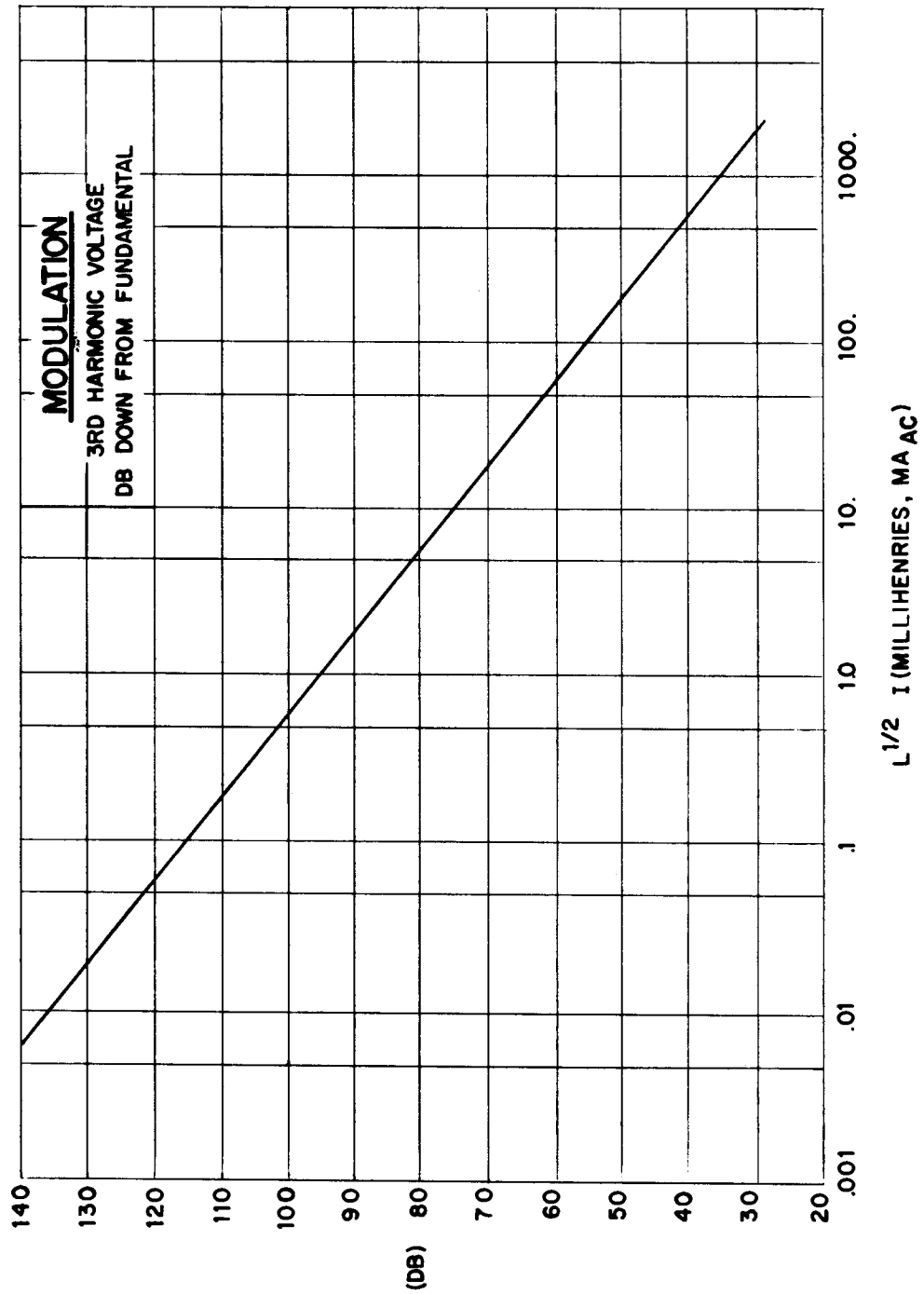
PERMALLOY POWDER CORE

26u 1.3" Core



PERMALLOY POWDER CORE

26u 1.3" Core



June 1962

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26 μ .8" INDUCTOR

The G1N type inductor is a toroidal type wound on a molybdenum permalloy powder core. It is intended for use in apparatus assemblies not subject to repair in the field.

Approximate Dimensions (Inches)

L	W	H
1-13/32	7/8	3-13/32

Nominal Performance Data

Frequency range: 30 kc to 60 kc
Types of windings: Single
Inductance range: 0.65 to 48 millihenries (See Note 1)
Initial inductance adjustment: (Specify f and I) $\pm 1\%$
DC Resistance: 2 ohms per millihenry
Distributed Capacitance: 50 to 75 mmf
Max recommended AC + DC voltage: 200
Max recommended power dissipation: 1/2 watt
Change of inductance with temperature: $\pm 0.2\%$ at central office temperatures
Q, Modulation, Superposed DC: (See characteristics)

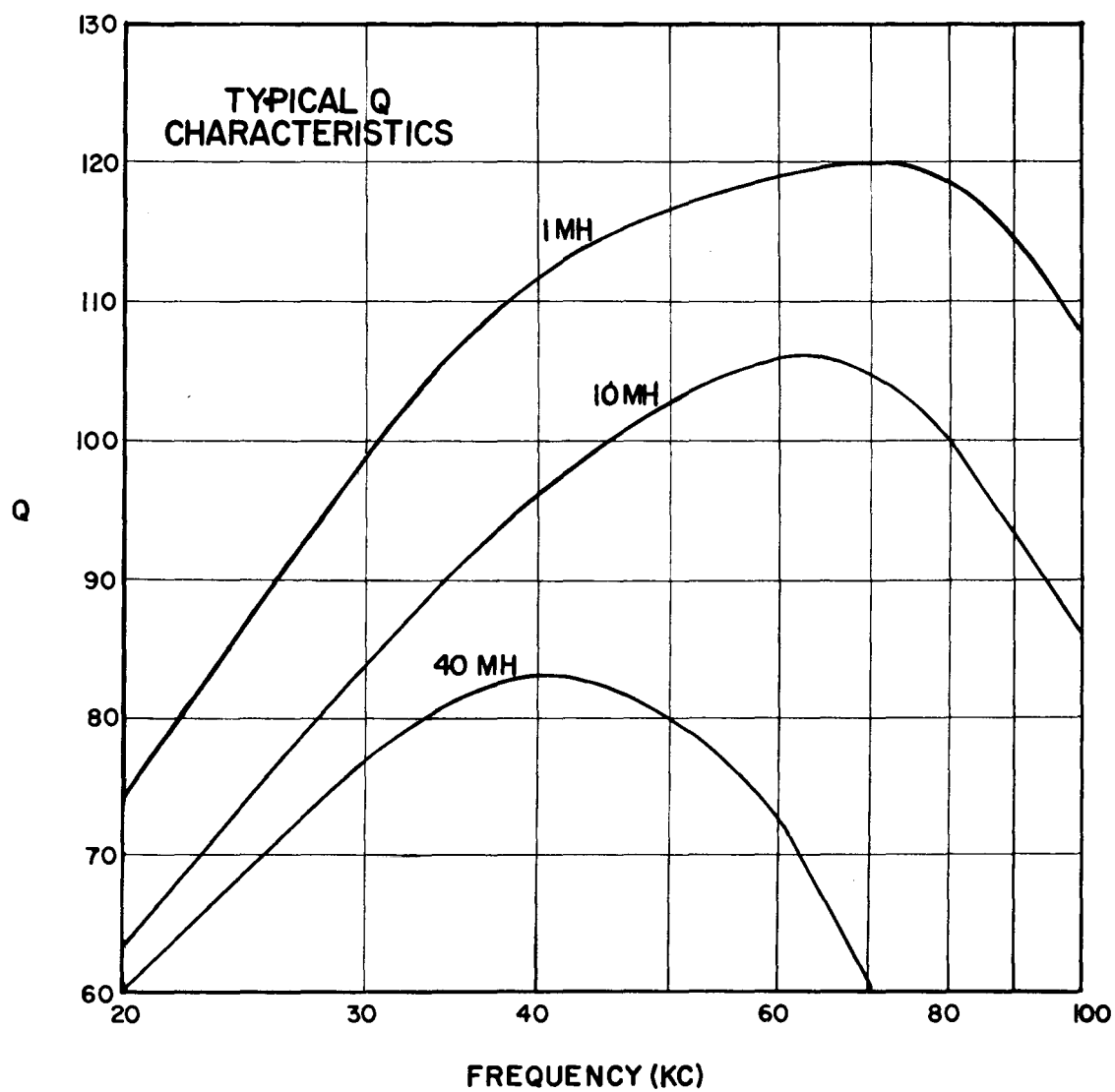
Note 1 Inductance values on existing codes are shown on table.

G1N TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
1.509	1.539	(5-6)	45	1.96	G1N1
1.015	1.035	(3-4)	60	1.28	
.1470	.1530	(1-2)	45	.39	
1.6710	1.7050	(5-6)	100	3.7	G1N2
.1568	.1618	(3-4)	100	.43	
.0776	.0817	(1-2)	100	.31	
1.6710	1.7050	(3-4)	100	3.7	G1N3
.0776	.0817	(1-2)	100	.31	



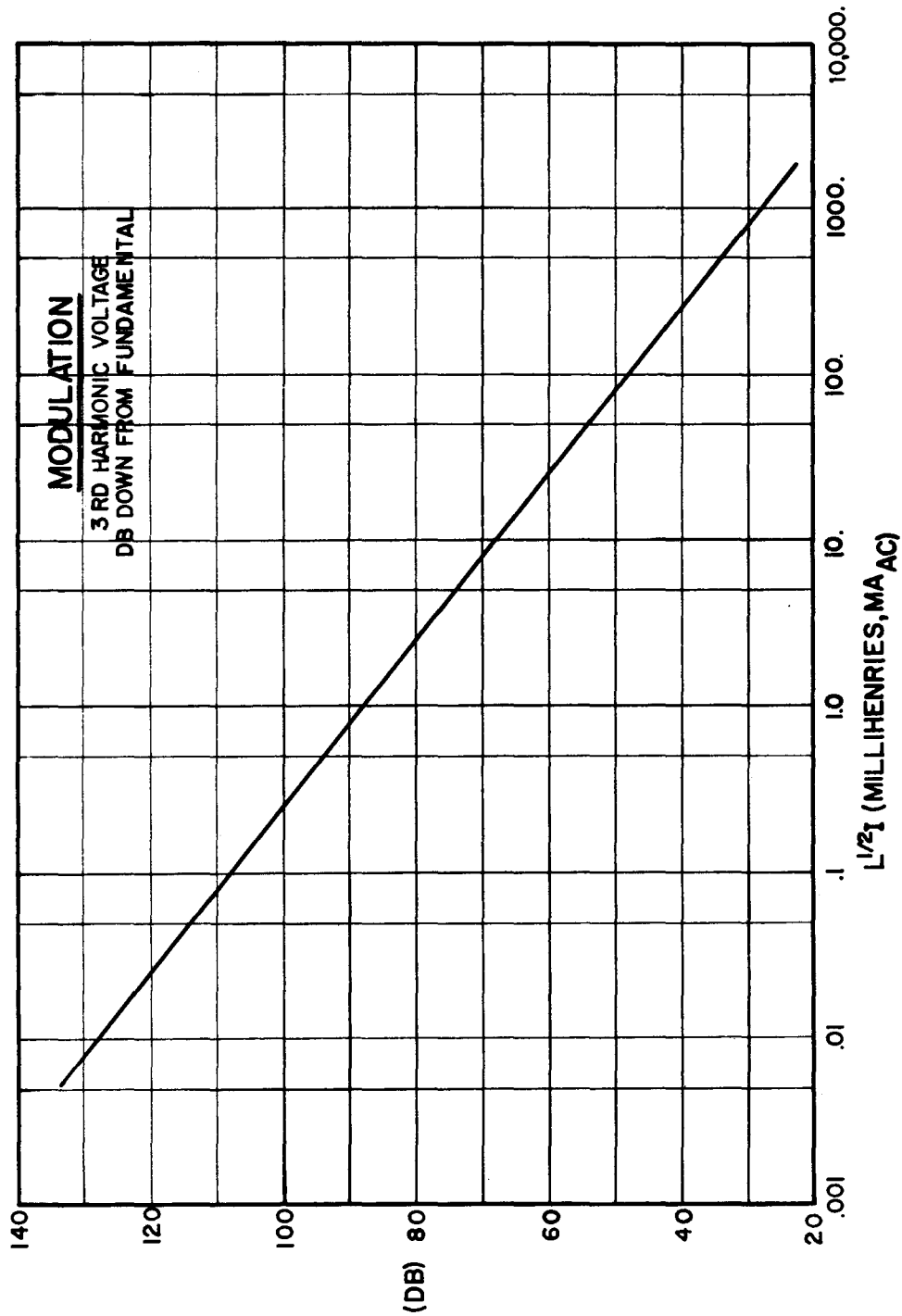
PERMALLOY POWDER CORE

26u .8" Core



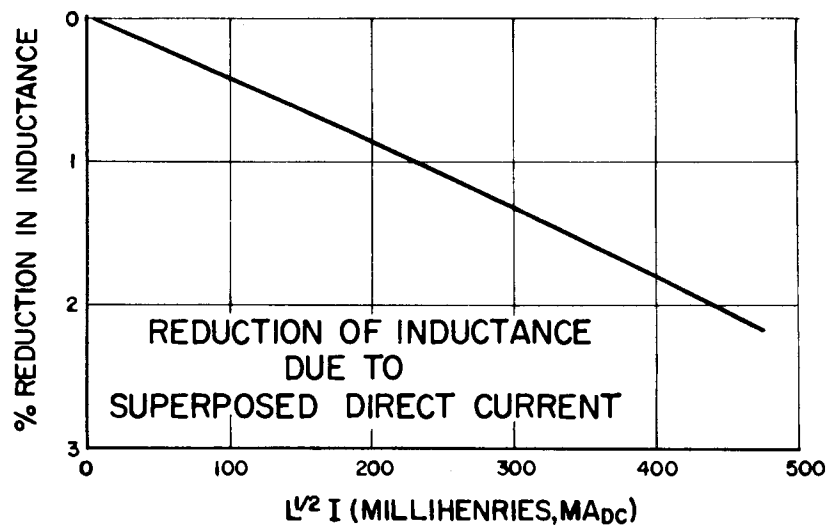
PERMALLOY POWDER CORE

26u .8" Core



PERMALLOY POWDER CORE

26u .8" Core



14 μ 1.84" INDUCTORS

The M1L type inductor is a toroidal type wound on a molybdenum permalloy powder core. It is intended for use in apparatus assemblies not subject to repair in the field.

Approximate Dimensions (Inches)			Distance Between Mounting Studs (Inches)
L	W	H	
2-7/16	1-19/32	2-19/32	1-3/4

Nominal Performance Data

Frequency range: 60 kc to 120 kc
Types of windings: Single or balanced
Inductance unbalance between windings: $\pm 1\%$
Inductance range: (Series aiding) 1 to 60 millihenries (See Note 1)
Initial inductance adjustment: (Specify f and I) $\pm 1\%$
DC Resistance: 1 ohm per millihenry
Distributed Capacitance: 9 to 11 mmf
Max recommended AC + DC voltage: 200
Max recommended power dissipation: 3 watts
Change of inductance with temperature: $\pm 0.2\%$ at central office temperatures
Q, Modulation, Superposed DC: (See characteristics)

Note 1 Inductance values on existing codes are shown on table.

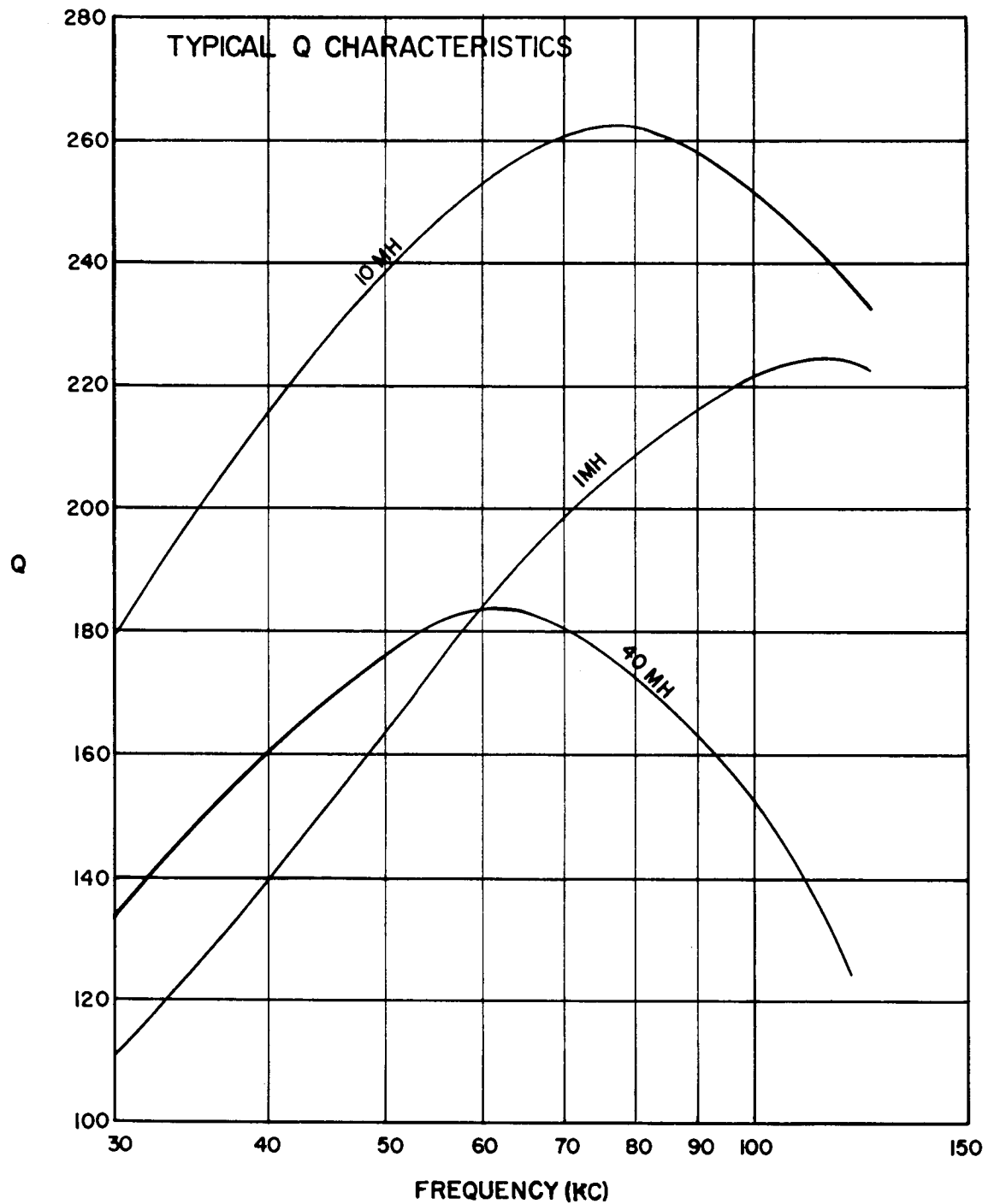
M1L TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
46.99	47.95	(1-2)(3-4)	2	44	M1L 1
39.77	40.57	(1-2)(3-4)	2	41	24 *
28.40	28.98	(1-2)(3-4)	2	27	23 *
23.63	24.11	(1-2)(3-4)	2	23	10
14.19	14.49	(1-3)	2	12	25 *
9.777	9.975	(1-2)	2	8.710	18
3.796	3.872	(1-2)	2	3.727	12
3.73	3.87	(1-2)(3-4)	2	3	3
3.326	3.392	(1-2)	2	3.190	20
2.65	2.70	(1-2)	2	2.365	15
2.238	2.282	(1-2)	2	2.23	22
1.776	1.812	(1-2)	2	1.237	19
1.264	1.290	(1-2)	2	.986	11
.709	.723	(1-2)	2	.541	13
.594	.606	(1-2)	2	.449	14
.510	.520	(1-2)	2	.44	17
.372	.379	(1-2)	2	.32	16
.297	.303	(1-2)	2	.25	21

* Special - use only on the advice of the Inductor Development Dept.



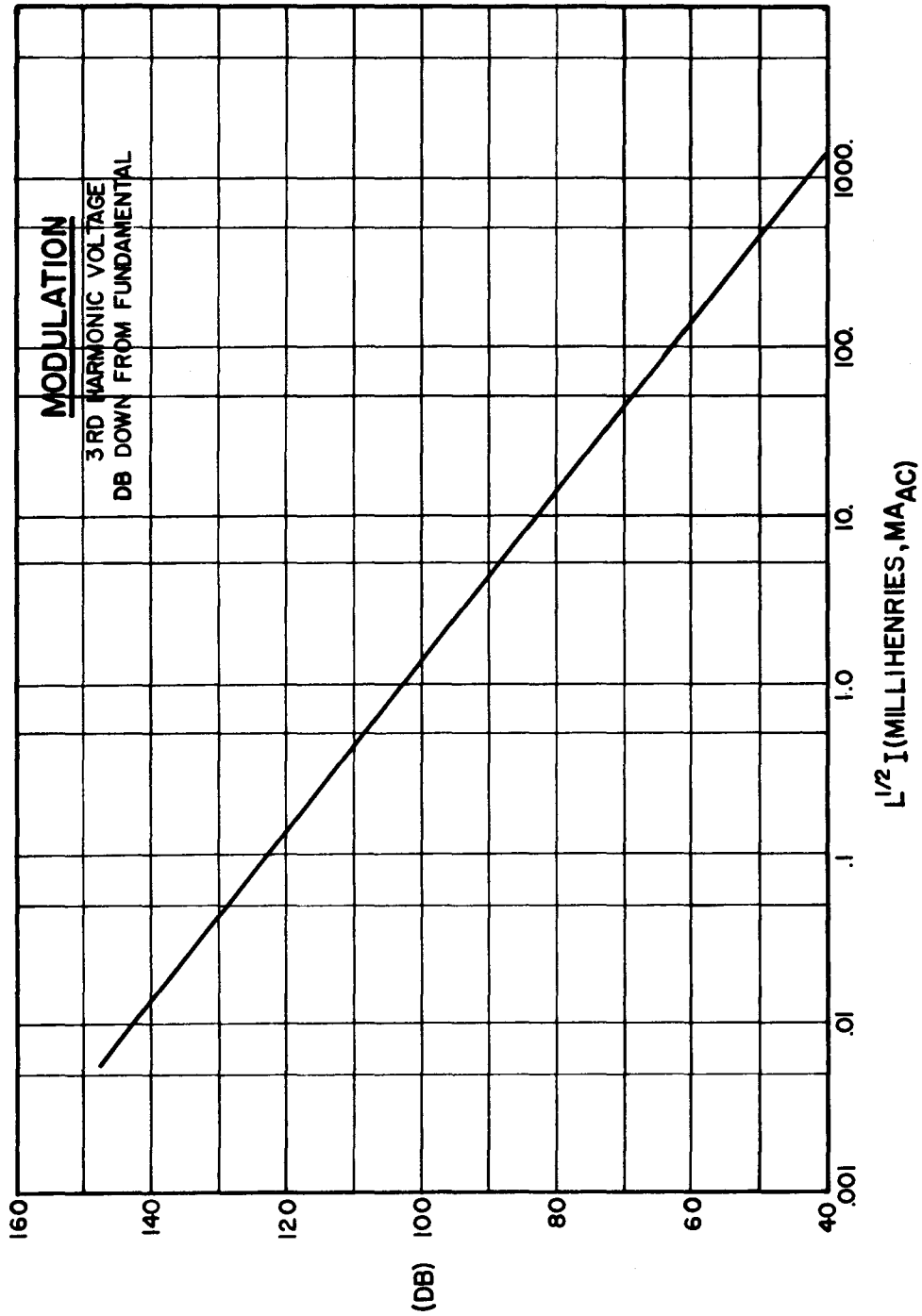
PERMALLOY POWDER CORE

1¹/₂ 1.84" Core



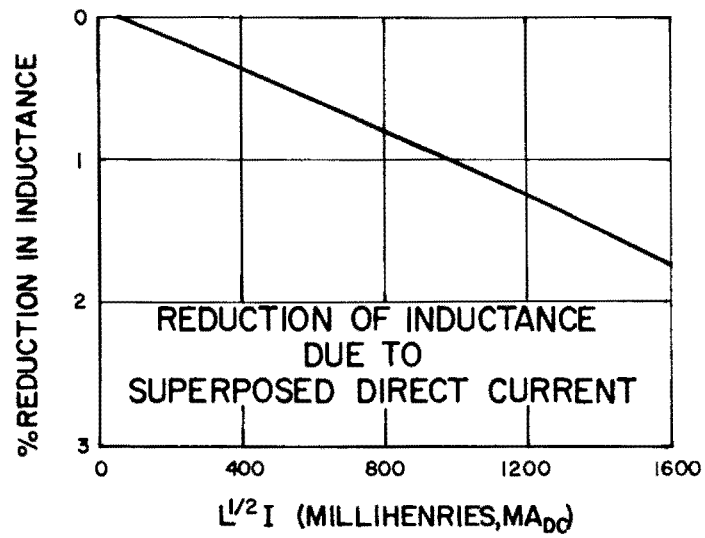
PERMALLOY POWDER CORE

14u 1.84" Core



PERMALLOY POWDER CORE

14u 1.84" Core



14 μ 1.3" INDUCTORS					
Code	Fig.	Approximate Dimensions (Inches)			Distance Between Mounting Studs (Inches)
		A	B	C	
M1H	EA	1-13/16	1-1/32	2-3/32	2-7/32
M1J	EB	1-23/32	1-13/32	3-15/32	
M1M	EC	1-7/8	1-1/32	2	1-45/64
R1A	ED	1-5/8		7/8	

All the above inductors are toroidal types wound on a molybdenum permalloy powder core. They are intended for use in apparatus assemblies not subject to repair in the field.

Nominal Performance Data

Frequency range: 60 kc to 120 kc

Types of windings: Single or balanced

Inductance unbalance between windings: $\pm 1\%$

Inductance range: (Series aiding) 0.5 to 350 millihenries (See Note 1)

Initial inductance adjustment: (Specify f and I): $\pm 1\%$

DC Resistance: 1.1 ohms per millihenry

Distributed Capacitance: 11 to 13 mmf (Modified bank wdg)
80 to 100 mmf (Layer wdg)

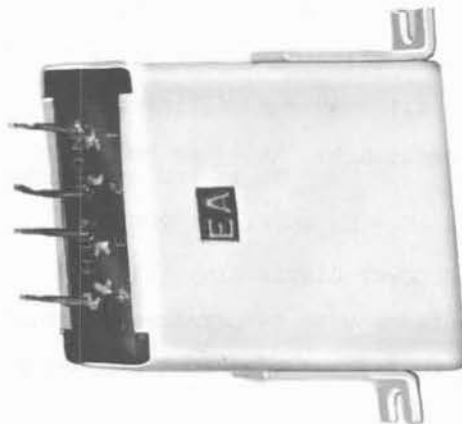
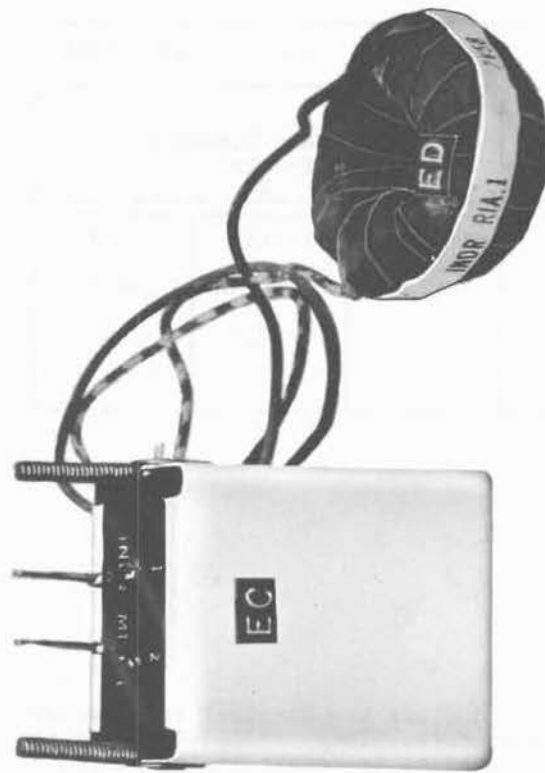
Max recommended AC + DC voltage: 200

Max recommended power dissipation: 1 watt

Change of inductance with temperature: $\pm 0.2\%$ at central office temperatures

Q, Modulation, Superposed DC: (See Characteristics)

Note 1 Inductance values on existing codes are shown on tables.



M1H TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
254.5 (approx)		(1-2)(3-4)	12	331.5	M1H3
101.8 (approx)		(1-2)(3-4)	28	119	2
42.4 (approx)		(1-2)(3-4)	56	43.35	1
.2074	.2116	(1-2)	12	34	5
.1037	.1063	(1-2)	17	17	4

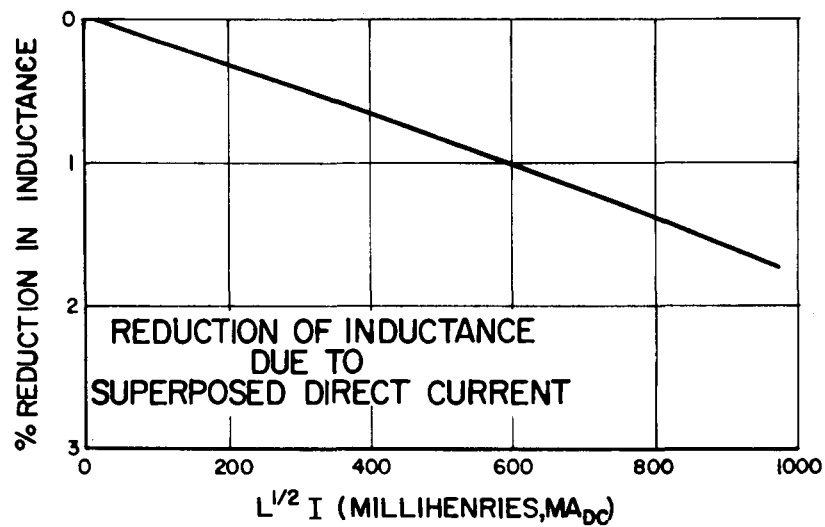
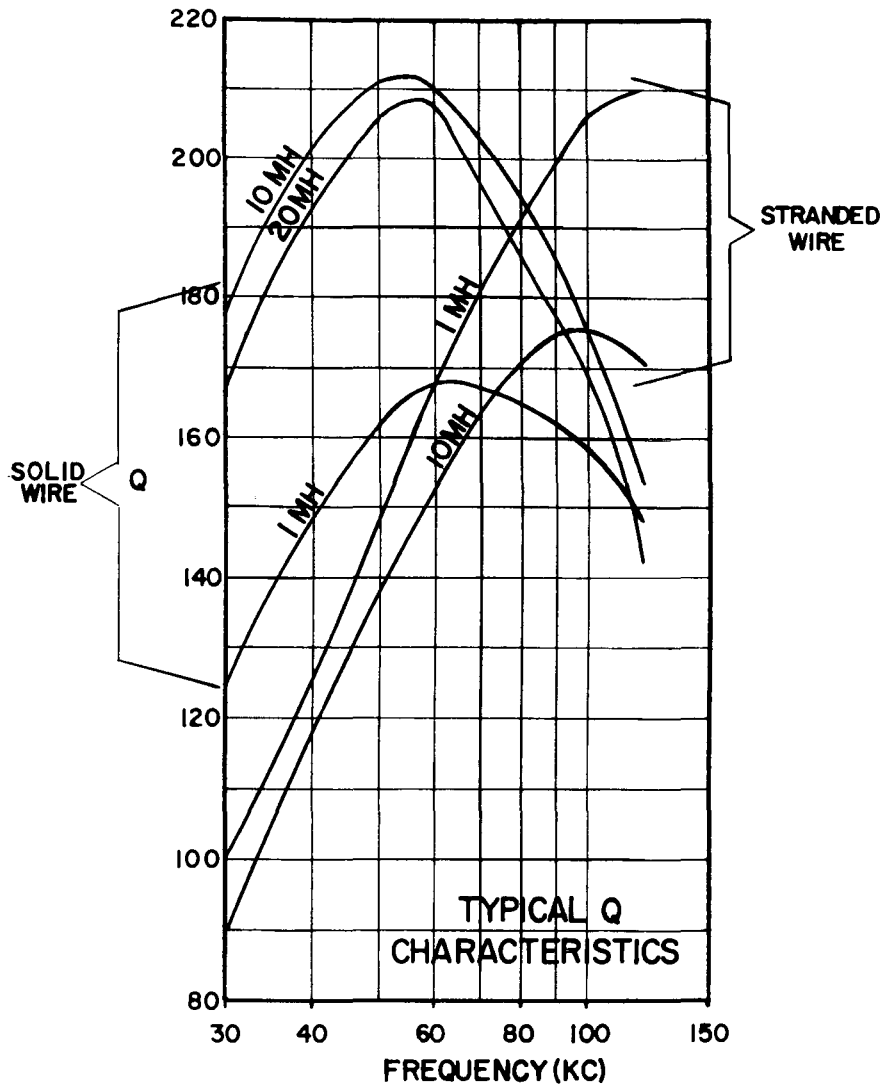
M1J TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
.597	.607	(1-2)(3-4)	108	1.15	M1J1
.161	.165	(5-6)	214	.3	
.2725	.2775	(1-2)(3-4)	108	.47	M1J2

M1M TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
29 (nom)		(1-2)	106	31.6	M1M7
27.4(nom)		(1-2)	84	29.52	4
6.44	6.58	(1-2)	20	11.9	8
6.07	6.19	(1-2)	20	9.1	6
4.95	5.05	(1-2)	3	8.75	3
.683	.697	(1-2)	20	1.1	5
.635	.645	(1-2)	3	1.003	2
.624	.636	(1-2)	3	.993	1

R1A TYPE INDUCTORS					
Inductance Millihenries		Winding	Test Freq Kc	Approx DCR Ohms	Code
Min	Max				
41.71 (nom)		(1-2)	2	44.2	R1A1
2.582	2.608	(1-2)	93.5	4.60	10
1.79 (nom)		(1-2)	50	2.85	6
1.79 (nom)		(1-2)	100	2.85	7
1.79 (nom)		(1-2)	150	2.85	8
1.658	1.678	(1-2)	93.5	3.80	9
1.502	1.524	(rd-rd wh)	60	2.4	4
1.196	1.220	(1-2)	2	1.79	2
1.502	1.524	(rd-rd wh)	60	2.4	R1A3
.050	.052	(bl-gr wh)	60	.57	
.006	.008	(bl-gr)	60	.18	
1.502	1.524	(rd-rd wh)	60	2.4	R1A5
.0113	.0142	(gr-bl wh)	60	--	
.0105	.0127	(gr-gr wh)	60	.24	

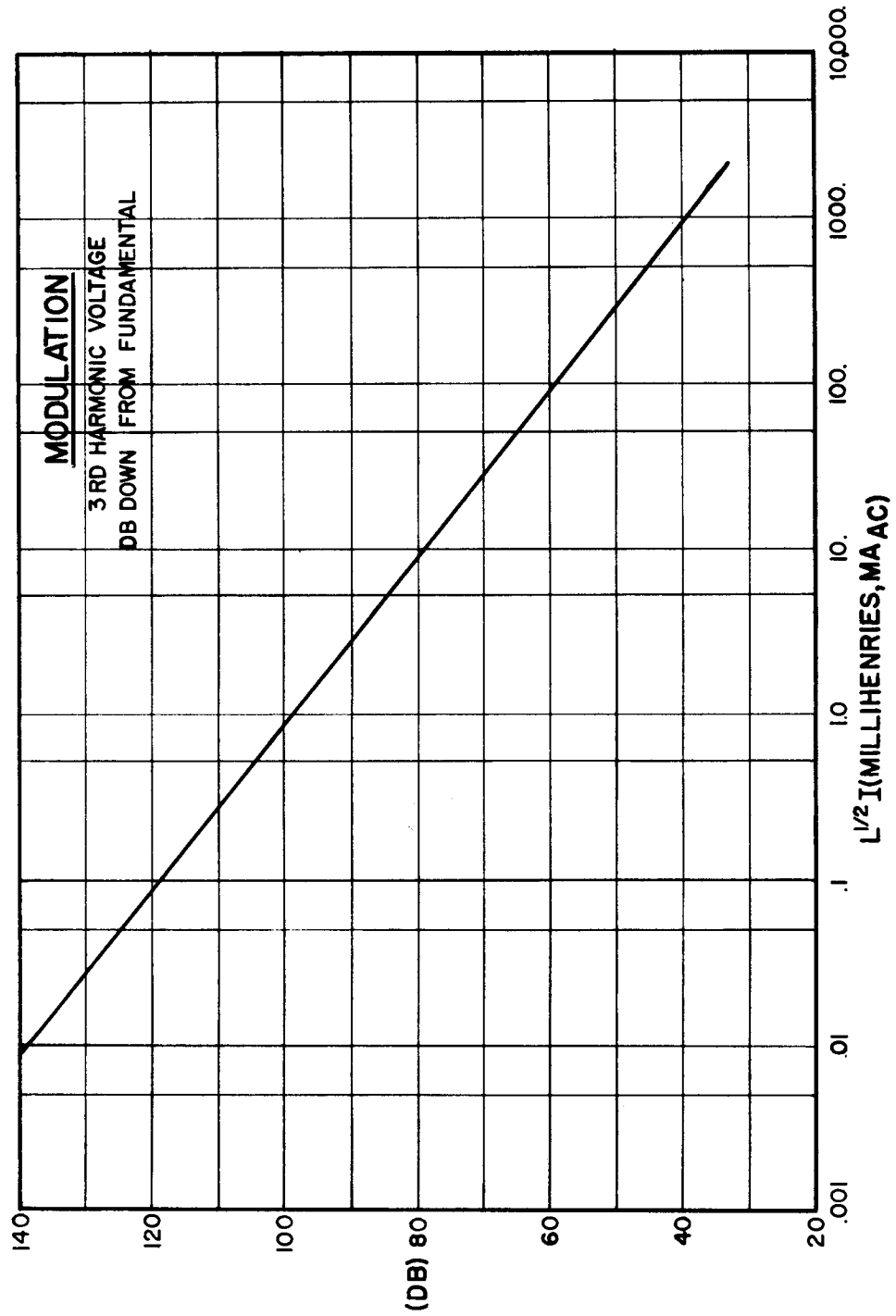
PERMALLOY POWDER CORE

1⁴u 1.3" Core



PERMALLOY POWDER CORE

1¹/₂" 1.3" Core



June 1962

III-95

LAMINATED INDUCTORS												
Code	Total DCR		Total Inductance			Effective Resistance		Windings	Dimensions - Inches			Remarks
	Ohms		Henries		Freq Kc	Ohms Max	L		W	H		
	Min	Max	Min	Max								
71A	--	428	6	--	.9	1620	.9	(1-2)(3-4) pa	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel.
C	--	43	.49	.51	.9	60	.9	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	Toroidal, Mo Perm Powder
H	--	13	.85	--	.9	--	--	(1-2)	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
K	--	2	.158	.182	.06	8	.135	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
R	--	17	1.17	1.29	.9	650	.9	(1-2)	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
S	--	3.5	.137	--	1.8	--	--	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
Y	--	220	5.5	--	.9	--	--	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
AA	--	8	.3	--	1.8	--	--	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
AB	--	72	4.79	5.85	.085	700	.085	(1-2)(3-4) sa	2-9/16	4-3/16	4-1/2	Toroidal, Silicon Steel
149B	--	234	25	--	.02	1000	.02	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
	--	--	4	--	.02	--	--	(1-2)(3-4) pa				
C	--	4600	120	--	.9	--	--	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
D	--	400	46	54	.02	--	--	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
E	--	--	5.5	--	.9	--	--	(1-2)(3-4) pa				
	--	100	6.6	8	.02	--	--	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
G	--	--	4.3	--	.9	--	--	(1-2)(3-4) sa				
	115	117	25	--	.02	1000	.02	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
H	--	--	4	--	.9	--	--	(1-2)(3-4) pa				
	--	25	.8	--	.9	--	--	(1-2)	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
J	--	75	4	--	.9	4500	.9	(1-2)	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
K	--	234	27	33	.02	700	.02	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
L	--	--	3.3	--	.9	--	--	(1-2)(3-4) pa				
	--	400	45	56	.02	--	--	(1-2)(3-12)sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
M	--	--	5.5	--	.9	--	--	(1-2)(3-12)pa				
	--	100	6.6*	8*	.02	--	--	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel
	--	--	4.3	--	--	--	--	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel

sa - series aiding so - series opposing pa - parallel aiding

* Inductance range is divided in eight groups.

sa - series aiding so - series opposing pa - parallel aiding

* Inductance range is divided in eight groups.

LAMINATED INDUCTORS														
Code	Total DCR			Total Inductance			Effective Resistance		Windings	Dimensions - Inches			Remarks	
	Ohms		Max	Henries		Freq Kc	Ohms Max	Freq Kc		L	W	H		
	Min	Max		Min	Max									
149N	--	2.3		.10	--	.9	--	--	(1-2)	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel	
P	--	25000	so	800	--	.02	24000	.02	(1-2)(3-4) pa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel	
R	--	13		.85	--	.9	--	--	(1-2)	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel	
S	--	158 (1-2) 239 (3-4)		15	--	.2	--	--	(1-2)(3-4) sa	3-1/8	1-23/32	4-1/4	Shell, Silicon Steel	
158A	--	160	sa	1.345 2.7 2.7	1.555 3.1 3.1	.9 .9 .9	750 750	.9	(1-2)(3-4) pa (1-2) (3-4)	8-9/16	3-1/4	4-7/8	Shell, 45 Permalloy	
213B	--	5800 (1-2)(4-3)	so	187 187	--	.06 .06	--	--	(1-2) (3-4)	3-9/32	1-11/16	3-7/16	Shell, Mo Permalloy	
232B	--	.48		.320	--	.9	--	--	(1-2)	3-9/32	1-11/16	4-3/16	Toroidal, Mo Perm Tape	
C	--	1.15		.81	--	.9	--	--	(3-7)(4-8)	3-9/32	1-11/16	4-3/16	Toroidal, Mo Perm Tape	
D	--	9 (1-2)(3-4) 9 (5-6)(7-8)	so so	.6	--	.9	--	--	(1,3,5,7- 2,4,6,8) pa	3-9/32	1-11/16	4-3/16	Toroidal, Mo Perm Tape	
E	--	3.3		.6	--	.9	--	--	(1-2)(3-4) pa	3-9/32	1-11/16	4-3/16	Toroidal, Mo Perm Tape	
257A	--	58	so	.6	1.1 .000044	.2 1.8	--	--	(1-2)(3-4) sa (1-2)(3-4) po	3-9/32	1-11/16	3-7/16	Toroidal, Mo Permalloy	
260A	--	9 (2-1)(3-4) 9 (6-5)(7-8)		.6	--	1.8	--	--	(1,3,5,7- 2,4,6,8) pa	3 diam	1-5/16	high	Toroidal, Mo Perm Tape	
B	--	3.3		.6	--	1.8	--	--	(1-2)(3-4) pa	3 diam	1-5/16	high	Toroidal, Mo Perm Tape	
263A	--	-- 1.45		.6 --	1.1 .000044	.2 1.8	--	--	(1-2) (1-G)	3-3/4	2-13/32	3-27/32	Toroidal, Mo Permalloy	
264A	--	-- 1.45		.6 --	1.1 .000044	.2 1.8	--	--	(1-2) (1-G)	4-11/16	diam x 5-1/2	high	Toroidal, Mo Permalloy	
sa - series aiding so - series opposing pa - parallel aiding po - parallel opposing														

sa - series aiding so - series opposing pa - parallel aiding po - parallel opposing

LAMINATED INDUCTORS													
Code	Total DCR		Total Inductance			Effective Resistance		Windings	Dimensions - Inches			Remarks	
	Ohms		Henries		Freq Kc	Ohms Max	L		W	H			
	Min	Max	Min	Max									
271A		5750	325	--	.1	--	--	(1-2)	1-11/16	1-11/16	3-9/16	Shell, 45 Permalloy	
274A	80.75 (1-2)	89.25	11	--	1	--	--	(1-2)(3-4)(5-6)	sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
	80.75 (5-6)	89.25											
	235 (3-4)	1365											
B	380 (1-2) 38 (3-4)	420 42	4.3	--	1	--	--	(1-2)		1-3/16	1-11/16	3-3/4	Straight core, Si Steel
C	190	210	2.8	--	1	--	--	(1-2)		1-3/16	1-11/16	3-3/4	Straight core, Si Steel
D	76.5 (1-2)	93.5	1.1	--	1	--	--	(1-2)(3-4)	sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
	76.5 (3-4)	93.5											
E	199.5 (1-2) 199.5 (5-6) 1274 (3-4)	220.5 220.5 1326	11	--	1	--	--	(1-2)(3-4)(5-6)	sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
F	450	550	4	--	1	--	--	(1-2) (3-4)		1-3/16	1-11/16	3-3/4	Straight core, Si Steel
	450	550	4	--	1	--	--						
G	475	525	7.1	--	1	--	--	(1-2)		1-3/16	1-11/16	3-3/4	Straight core, Si Steel
H	54 (1-2) 54 (3-4)	66 66	1.6	--	1	--	--	(1-2)(3-4)	sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
J	225 (1-2) 225 (3-4)	275 275	6.25	--	1	--	--	(1-2)(3-4)	sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
K	4.75 (1-2) 147.25 (3-4)	5.25 162.75	1.25	--	1	--	--	(1-2)(3-4)	sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel

sa - series aiding

LAMINATED INDUCTORS												
Code	Total DCR		Total Inductance			Effective Resistance		Windings	Dimensions - Inches			Remarks
	Ohms	Max	Henries	Max	Freq	Ohms	Freq		L	W	H	
274L	180 (1-2) 180 (3-4)	220 220	4.2	--	1	--	--	(1-2)(3-4)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
N	225 (1-2) 225 (5-6) 315 (3-4)	275 275 385	7.15	--	1	--	--	(1-2)(3-4)(5-6)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
P	888.25	981.75	9	--	1	--	--	(1-2)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
R	148.5	181.5	2.65	--	1	--	--	(1-2)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
S	27	33	.63	--	1	--	--	(1-2)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
T	76 (1-2) 76 (3-4)	84 84	.8	--	1	--	--	(1-2)(3-4)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
U	135	165	2.45	--	1	--	--	(1-2)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
W	95 (1-2) 95 (3-4)	105 105	.404	--	1	--	--	(1-2)(3-4)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
Y	332	367	1.75	--	1	--	--	(1-2)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AA	43.2 (1-2) 357 (3-4) 15.3 (5-6)	50.4 393 18.7	1.4 .75	--	1	--	--	(1-2)(3-4)(5-6)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AB	47.5	52.5	1.04	--	1	--	--	(1-2)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AC	45 (1-2) 45 (3-4)	55 55	2	--	1	--	--	(1-2)(3-4)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel

sa - series aiding pa - parallel aiding

LAMINATED INDUCTORS												
Code	Total DCR		Total Inductance			Effective Resistance		Windings	Dimensions - Inches			Remarks
	Min	Max	Ohms	Henries	Freq Kc	Ohms	Freq Kc		L	W	H	
274AE	22.5 (1-2)	27.5		1.04	1	--	--	(1-2)(3-4) sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AF	--	1.3		.035	.06	--	--	(1-3)	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AG	44 (1-2)	176		.95	1	--	--	(1-2)(3-4) pa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AH	76.5 (1-2)	93.5		2.4	1	--	--	(1-2)(3-4) sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
AJ	10.8 (1-2)	13.2		.4	1	--	--	(1-2)(3-4) sa	1-3/16	1-11/16	3-3/4	Straight core, Si Steel
277A	--	2350	270		.06	--	--	(1-2)	2-9/16	3-13/32	3-7/16	Shell, 45 Permalloy
282A	--	1.9	--	--	--	--	--	(1-2)	11/16	1-3/16	1-15/32	Toroidal, Mo Permalloy Tape
307B	--	515	10		.06	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
C	--	153	1.4		.2	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
D	--	4950	85		.2	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
E	50 (1-2)	61	7.75		.02	--	--	(1-5)	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
	100 (2-3)	122	3		.9	--	--	(1-5)				
	27.9 (3-4)	34										
	17.6 (4-5)	21.5										
F	--	2850	40		.06	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
G	171 (1-2)	209	.55		.9	--	--	(1-2)(3-4) pa	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
	171 (3-4)	209										

pa - parallel aiding sa - series aiding

LAMINATED INDUCTORS												
Code	Total DCR		Total Inductance		Effective Resistance		Windings	Dimensions - Inches			Remarks	
	Ohms		Henries	Freq Kc	Ohms Max	Freq Kc		L	W	H		
	Min	Max										
307H	149	181	1.4	--	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
J	76 (1-2) 76 (3-4)	93 93.	1.3	--	--	--	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
K	9 (1-2) 9 (3-4)	10 10	.4	--	--	--	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
L	40	50	2	2.7	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed eore, S1 Steel	
M	340	400	7	--	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
N	185 (1-2) 185 (3-4)	225 225	5 2	--	--	--	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel With .070 amp. DC With .1 amp. DC	
P	76.5 (1-2) 76.5 (3-4)	93.5 93.5	2	--	--	--	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
R	18 (1-2) 18 (3-4)	22 22	1	--	--	--	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
S	95 (1-2) 95 (3-4)	105 105	4	--	--	--	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
T	--	2700	40	--	8000 (min)	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
U	900	1100	25	--	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
W	4.5	5.5	.25	--	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
Y	715	785	.75	--	--	--	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, S1 Steel	
sa - series aiding												

sa - series aiding

LAMINATED INDUCTORS											
Code	Total DCR		Total Inductance		Effective Resistance		Windings	Dimensions - Inches			Remarks
	Ohms Min	Ohms Max	Henries Min	Henries Max	Ohms Max	Freq Kc		L	W	H	
307AA	--	150 (1-2)	5	--	--	.2	(1-2)(3-4) sa	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
AB	--	150 (3-4)									
333A	--	515	10	--	--	.06	(1-2)	1-11/16	1-3/16	3-3/4	Closed core, Si Steel
B	--	475	6	8	--	.06	(1-3)	1-11/16	1-3/16	3-3/4	Shell, Si Steel
C	--	115 (approx)	3.8	4.2	225	.06	(1-2)	1-11/16	1-3/16	3-3/4	Shell, Si Steel
354A	--	475	6	8	--	.06	(1-3)	1-11/16	1-3/16	3-3/4	Shell, Si Steel
1530A	--	2100 2100	160 160	240 240	--	.06 .06	(1-2) (3-4)	1-27/32	1-1/32	2-1/16	Shell, 45 Permalloy
B	--	22 so	.3	--	--	.2	(1-2)(3-4) pa	6-1/4	1-3/16	3-7/16	Toroidal, 45 Perm Tape
1544A	--	22 so	.4	--	--	.2	(1-2)(3-4)(5-6)(7-8) pa	6-1/4	1-3/16	3-7/16	Toroidal, 45 Perm Tape
1553A	--	400	60	70	1500	.05	(1-2)(3-4) sa	3-13/32	2-9/16	3-7/16	Shell, 45 Permalloy
1555A	55	67	.42	--	--	.2	(1-3)	1-37/64	1-9/64	1-7/8	Shell, Si Steel
1591A	--	800 (1-2)(3-4)so	2	--	--	1	(1-2)(3-4) pa	1-11/16	2-17/32	3-7/16	Shell, Si Steel
	--	23	.4	.65	--	.2	(1-2)	1-3/8	1-3/16	1-9/16	Shell, 45 Permalloy
sa - series aiding				so - series opposing			pa - parallel aiding				

FERRITE CORE INDUCTORS										
Code	Total DCR		Total Inductance		Effective Resistance		Windings	Dimensions - Inches	Remarks	
	Ohms		Millihenries	Freq Kc	Ohms Max	Freq Kc				
	Min	Max								
1502A	1020	1060	9.4	10.6	10	--	--	(1-2)	9/16 diam x 1-11/16 long	Closed core, MN ZN
B	--	27.6	9.4	10.6	10	--	--	(1-2)	9/16 diam x 1-11/16 long	Closed core, MN ZN
1503A	--	1.4 (1-2) 1.4 (2-4)	.556	.576	50	--	--	(1-2)(3-4) sa	1-15/32 x 1-15/32 x 2-1/64	Rod
B	--	.9 (1-2) .9 (2-4)	.240	.250	50	--	--	(1-2)(3-4) sa	1-15/32 x 1-15/32 x 2-1/64	Rod
1513A	--	1950 (1-3) 1800 (4-8)	.0043	.0051	4.139 mc	7	4.139 mc	(5-6)	1-3/16 x 1-1/32 x 1-1/2	Core, MN ZN With 0 DC in wdg (1-3) With 6.5 MA DC in (1-3)
1535A	--	200	200	--	1.8	240	1.8	(1-2)	3/8 diam x 3/8 long	Cup, MN ZN
B	--	80	64	86	1.8	100	1.8	(1-2)	3/8 diam x 3/8 long	Cup, MN ZN
C	--	65	43	57	1.8	80	1.8	(1-2)	3/8 diam x 3/8 long	Cup, MN ZN
D	--	30	17	23	1.8	40	1.8	(1-2)	3/8 diam x 3/8 long	Cup, MN ZN
E	--	25	13	17	1.8	33	1.8	(1-2)	3/8 diam x 3/8 long	Cup, MN ZN
1546A	36	44	9	11	1.8	50	1.8	(1-2)	5/16 diam x 3/8 long	Cup, MN ZN
B	--	120	80	--	1.8	--	--	(1-2)	5/16 diam x 3/8 long	Cup, MN ZN
C	--	60	21.6	32.4	1.8	66	1.8	(1-2)	5/16 diam x 3/8 long	Cup, MN ZN
D	--	10	2.55	3.45	1.8	11	1.8	(1-2)	5/16 diam x 3/8 long	Cup, MN ZN
E	--	10.3	2.97	3.63	1.8	11.4	1.8	(1-2)	5/16 diam x 3/8 long	Cup, MN ZN
J	--	58 (approx)	18.4	27.6	1.8	69	1.8	(1-2)	5/16 diam x 3/8 long	Cup, MN ZN

sa - series aiding

FERRITE CORE INDUCTORS										
Code	Total DCR		Total Inductance			Effective Resistance		Windings	Dimensions - Inches	Remarks
	Ohms		Millihenries	Freq Kc	Ohms Max	Freq Kc				
	Min	Max								
1562A	--	--	2.23	2.27	2	2.42	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
B	--	--	83.16	84.84	1	209	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
C	--	--	1.74	1.78	1	1.9	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
D	--	--	4.67	4.77	1	5	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
E	--	--	3.37	4.13	60	8	60	(1-2)(3-4) pa	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
F	--	--	2.77	2.83	50	2.9	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
G	--	--	1.48	1.50	4	1.6	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
H	--	--	4.44	4.52	4	4.8	60	(1&4)	1-11/32 diam x 1 high	Cup, MN ZN, Term 2 & 3 are omitted from terminal plate.
1566A	--	--	3.15	3.85	15 mc	--	--	(1-2)	3/4 diam x 5/16 thick	Toroidal, Crowley 0-9
B	--	--	2.07	2.53	15 mc	--	--	(1-2)	3/4 diam x 5/16 thick	Toroidal, Crowley 0-9
1571A	--	38	10	--	9	--	--	(1-2)(3-4) sa	1-3/16 x 1-1/32 x 3/16	Core, MN ZN
1576A	--	--	.545	.665	5.8	2.5	5.8	(1-2)	7/16 diam x 5/8 long	Cup, MN ZN
B	--	--	.560	.840	1.8	3.5	1.8	(1-2)	7/16 diam x 5/8 long	Cup, MN ZN
C	--	--	9	11	1.8	32	1.8	(1-2)	7/16 diam x 5/8 long	Cup, MN ZN
D	--	--	1.98	2.42	5.8	10.3	5.8	(1-2)	7/16 diam x 5/8 long	Cup, MN ZN
1585A	--	160	130	--	1	--	--	(1-3)	1-1/32 x 1-3/16 x 1-1/2	Core, MN ZN

pa - parallel aiding

sa - series aiding

sa - series aiding

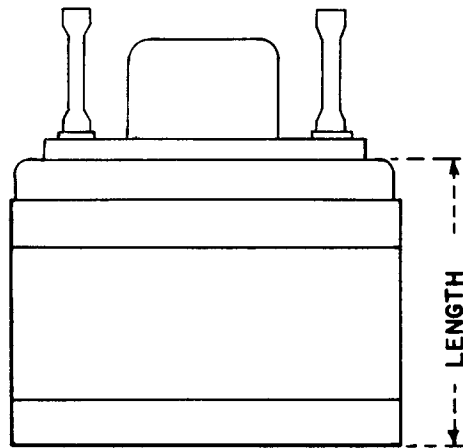
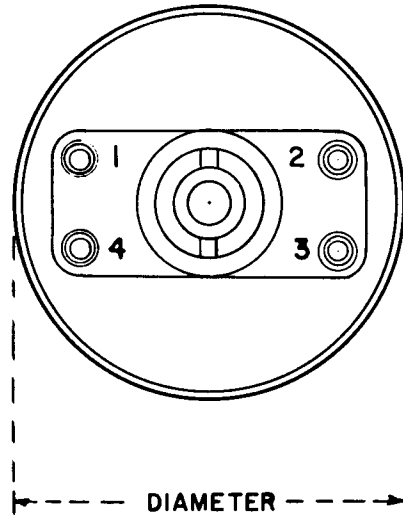
pa - parallel aiding

FERRITE CORE INDUCTORS

The 1509 type inductors consist of a winding or windings on a manganese zinc cup core. The inductance may be adjusted over a limited range by means of an adjustable ferrite core.

Dimensions
(Inches)
Diameter Length
1-11/32 1

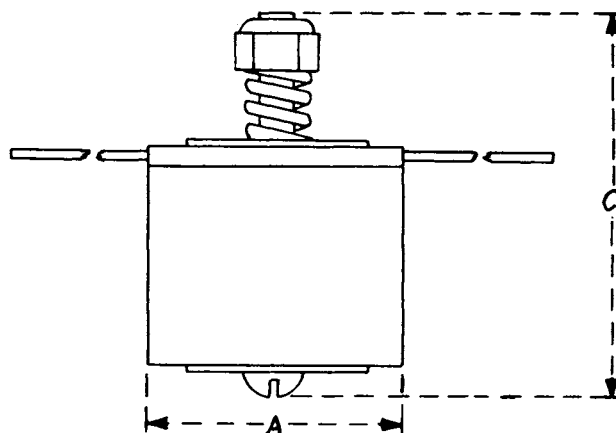
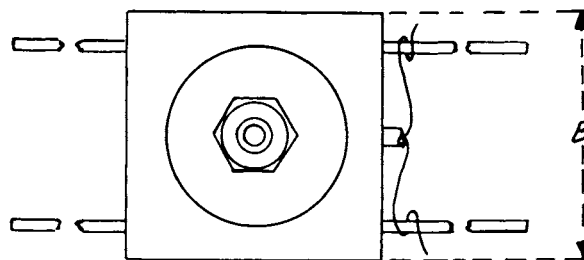
1509 TYPE INDUCTORS										
Adjustable Inductance										
Effective Inductance Adjustment Range Millihenries		Q		Code	Effective Inductance Adjustment Range Millihenries		Q		Code	
From	To	Min	Freq Kc		From	To	Min	Freq Kc		
92.5	107.5	150	20	1509AL	1.75	2.03	351	60	1509 D	
62.9	73.1	243	20	BT	1.48	1.72	350	60	C	
35.89	41.71	237	40	BH	1.16	1.36	351	170	BU	
33.3	38.7	235	60	BR	1.32	1.54	236	60	AG	
32.38	37.63	110	175	BA	1.26	1.47	235	60	G	
30.66	35.64	235	60	BF	1.10	1.29	235	60	F	
21.53	25.07	235	60	AT	.992	1.16	235	60	AF	
19.36	22.50	301	60	BE	.883	1.03	235	60	L	
17.20	20.00	300	60	BG	.808	.940	236	60	AE	
16.01	18.59	301	60	BN	.758	.882	235	60	AW	
14.98	17.42	110	20	AY	.688	.800	235	60	AD	
12.16	14.14	304	60	AS	.636	.74	236	60	K	
10.08	11.72	300	60	AR	.579	.673	235	60	BK	
8.69	10.11	300	60	AN	.530	.616	235	60	AC	
7.66	8.92	350	60	AP	.487	.567	235	60	BP	
6.67	7.76	350	60	R	.444	.518	235	60	AK	
6.13	7.13	350	60	AM	.413	.481	235	60	BM	
5.11	5.94	350	60	AB	.386	.448	235	60	AA	
4.62	5.38	349	60	BS	.338	.392	235	60	H	
3.76	4.39	350	60	P	.304	.354	237	60	BC	
3.60	4.20	351	100	A	.288	.334	235	60	Y	
3.22	3.75	350	60	N	.246	.286	237	60	BB	
2.88	3.35	350	60	S	.224	.260	235	60	W	
2.74	3.20	350	60	AJ	.203	.237	235	60	BL	
2.47	2.89	350	60	M	.166	.194	235	60	AU	
2.30	2.68	351	60	E	.144	.167	235	60	U	
2.10	2.44	350	60	AH	.107	.124	235	60	T	
1.92	2.25	358	60	J	.0434	.0504	152	60	BY	
1.55	1.81	350	170	BW						



NOTE: ON TWO TERMINAL INDUCTORS, TERMINALS 2 & 3 ARE OMITTED.

FERRITE CORE INDUCTORS

The 1541 type inductors consist of a winding on a manganese zinc cup core. Each inductor is furnished adjusted and sealed to inductance specified on order.



Dimensions (Inches)		
A	B	C
7/8	7/8	1-3/32

1541 TYPE INDUCTORS							
Fixed Inductance							
Inductance Factory Fixed To Value Ordered Between Millihenries		Max DCR Ohms	Code	Inductance Factory Fixed To Value Ordered Between Millihenries		Max DCR Ohms	Code
Min	Max			Min	Max		
31.32	32.28	5.49	1541AJ	1.85	1.91	.378	1541AA
24.2	25.0	4.84	AM	1.73	1.83	.370	BF
20.7	21.3	3.54	AT	1.65	1.71	.355	G
17.71	18.25	3.25	R	1.57	1.61	.348	J
14.2	14.6	2.23	AC	1.50	1.60	.341	BJ
13.68	14.52	2.16	BD	1.38	1.42	.330	U
12.12	12.48	2.13	D	1.28	1.32	.317	AW
10.78	11.10	1.98	W	1.21	1.25	.296	AL
8.37	8.63	1.33	AH	1.09	1.13	.290	AU
7.98	8.22	1.30	AN	.974	1.004	.282	K
6.91	7.33	1.20	BH	.875	.901	.169	AF
6.79	6.99	1.21	A	.856	.882	.169	BB
5.37	5.53	1.08	BC	.816	.840	.169	L
5.01	5.17	.840	H	.760	.784	.164	N
4.92	5.06	.816	M	.732	.778	.159	BK
4.58	4.72	.763	B	.644	.664	.147	BA
4.29	4.43	.754	S	.631	.651	.148	AK
3.85	3.97	.696	AS	.550	.584	.139	BG
3.68	3.80	.696	T	.538	.554	.138	AB
3.41	3.51	.691	E	.518	.534	.133	P
3.01	3.19	.540	BE	.500	.516	.133	AY
2.70	2.78	.516	F	.481	.495	.128	AE
2.58	2.66	.509	AG	.446	.460	.129	AR
2.44	2.52	.492	AD	.410	.436	.119	BL
2.21	2.27	.422	C	.136	.140	.072	AP
2.11	2.17	.402	Y				

The 1586-type inductors are adjustable inductors with ferrite cores. The inductance of each inductor may be adjusted by means of a threaded magnetic core over a range of at least ± 5 per cent from the nominal inductance value. Each is enclosed in a plastic case and provided with pin terminals designed to mount on printed wiring boards. A No. 4 brass screw is recommended for mounting.

These codes are family types; that is, they may be ordered by specifying the code number plus a nominal inductance value which will be stamped on the inductor as a part of the code number. This nominal inductance should be specified in millihenries to not less than two nor more than three significant figures, e.g., 0.23 millihenry or 10.2 millihenries.

INTENDED USE

The 1586-type inductors are intended for general purpose use.

ELECTRICAL DATA

The different codes are based on the frequencies at which the inductance values are determined. The test frequency and range of inductances that can be supplied for each code are shown in Table A.

The inductance and Q are both functions of frequency, especially in higher inductance values, because of the distributed capacitance of the windings. Allowance for this should be made in specifying inductance values when the critical-use frequencies differ appreciably from the test frequency. Typical distributed capacitance values are shown in Table A.

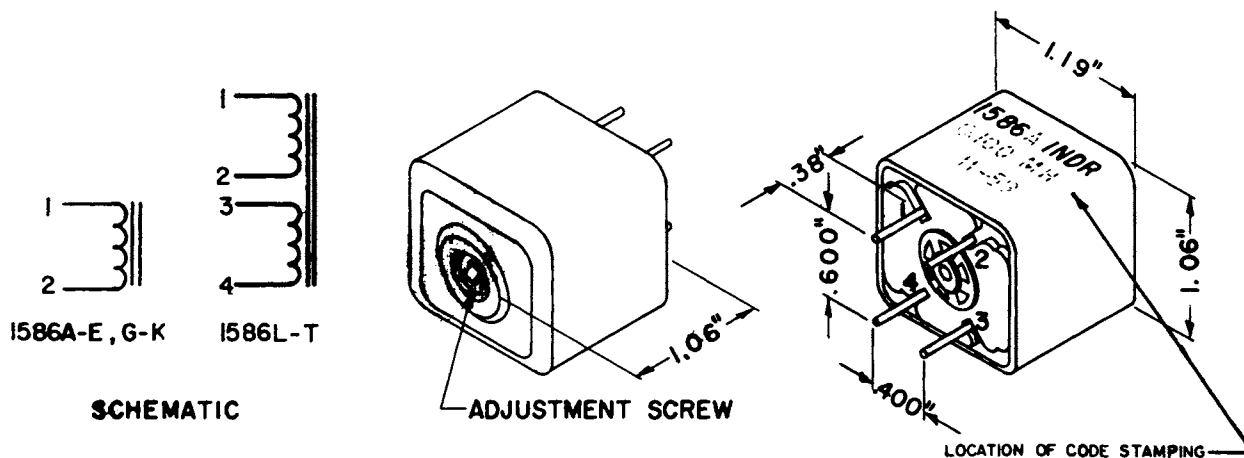


TABLE A			
Inductor	Inductance Range	Test Frequency	Typical Distributed Capacitance
	mh	kc	uuf
1586A	0.350 to 2500	1	30
1586B	0.400 to 400	20	15
1586C	0.100 to 52	50	12
1586D	0.100 to 25	90	12
1586E	0.100 to 40	90	8
1586G	0.020 to 10	200	5
1586H	0.020 to 2.8	400	5
1586J	0.020 to 1.3	600	5
1586K	0.020 to 0.700	800	5
1586L	0.400 to 400	20	15
1586M	0.100 to 52	50	12
1586N	0.100 to 40	90	8
1586P	0.020 to 10	200	5
1586R	0.020 to 2.8	400	5
1586S	0.020 to 1.3	600	5
1586T	0.020 to 0.700	800	5

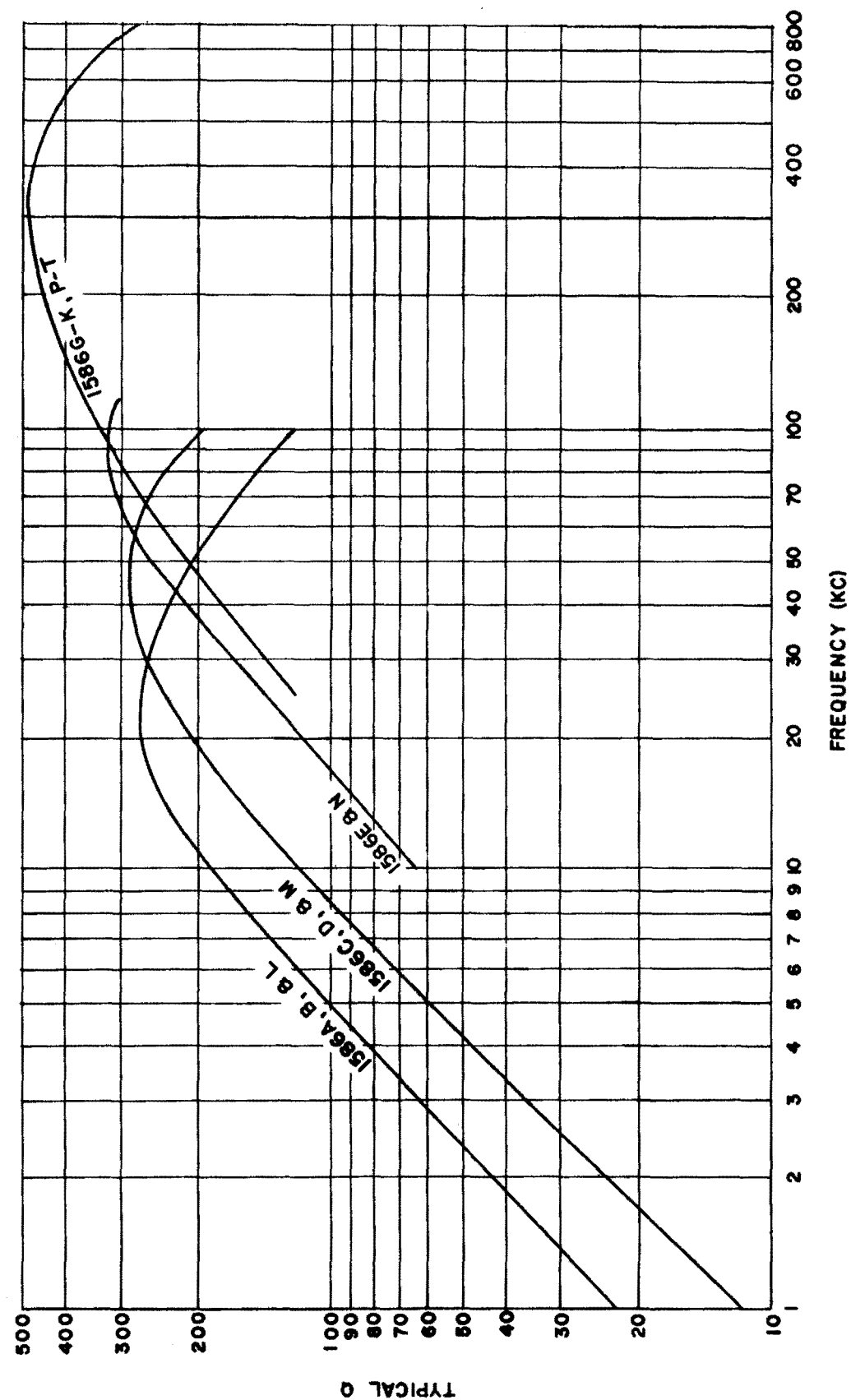


FIG. 1 - TYPICAL Q VS FREQUENCY

Note: The Q-versus-frequency characteristic of an inductor is a function of the inductance value due to the effects of distributed capacitance and incremental copper losses, both of which are functions of wire size and number of turns. For applications in which this characteristic is critical, the Inductor Development Department should be consulted for specific information.

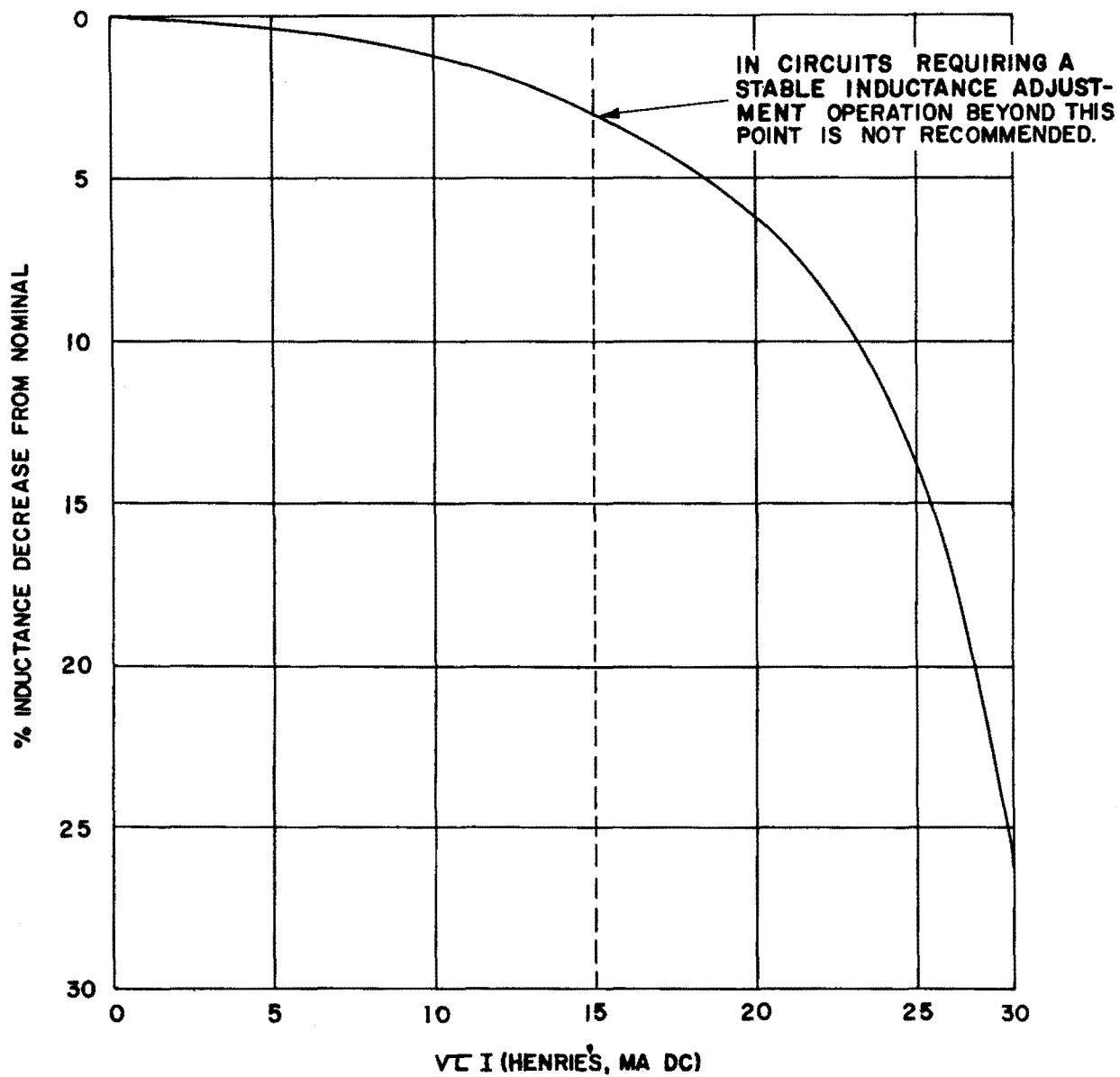


FIG. 4 - TYPICAL REDUCTION OF INDUCTANCE DUE TO SUPERPOSED DIRECT CURRENT FOR THE 1586A-E & L-N INDUCTORS

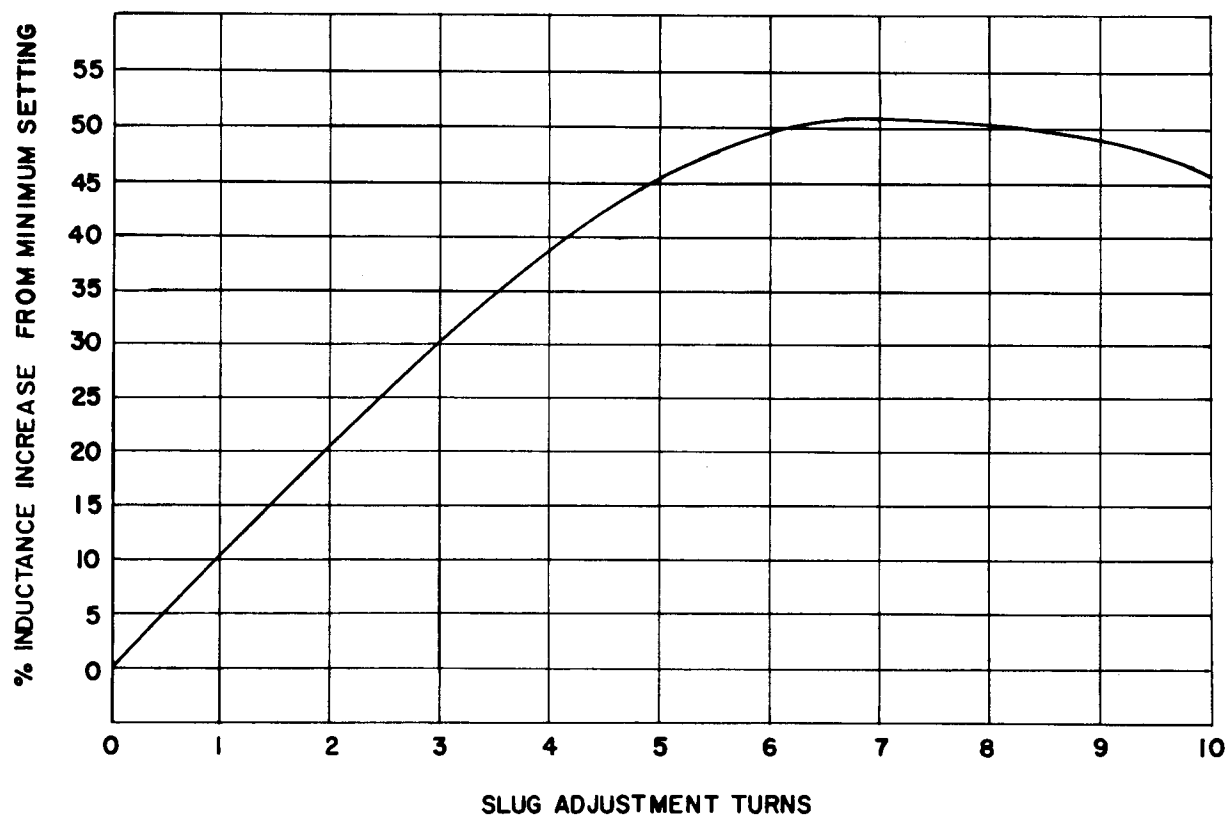


FIG. 5 - TYPICAL ADJUSTMENT VS INDUCTANCE INCREASE FOR THE I586G-K & P-T INDUCTORS

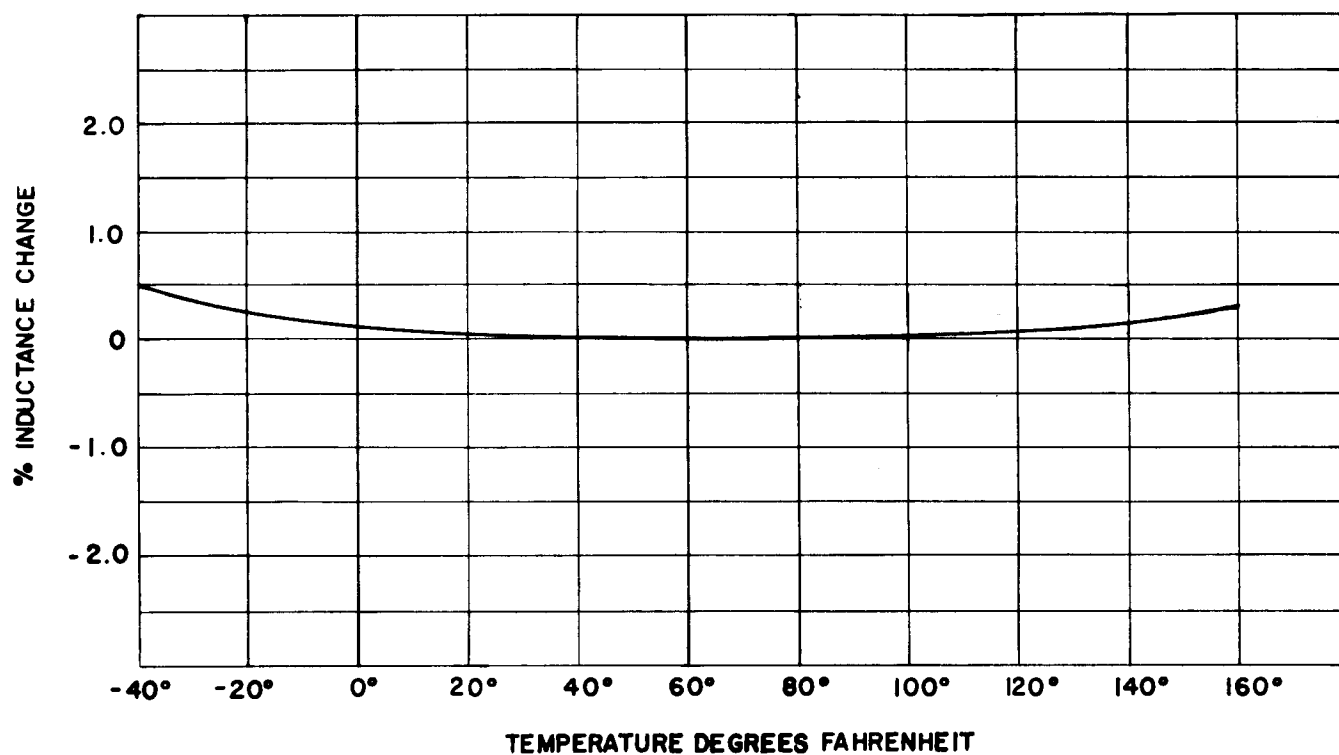


FIG. 6 - TYPICAL INDUCTANCE VS TEMPERATURE CHANGE FOR THE I586G-K & P-T INDUCTORS

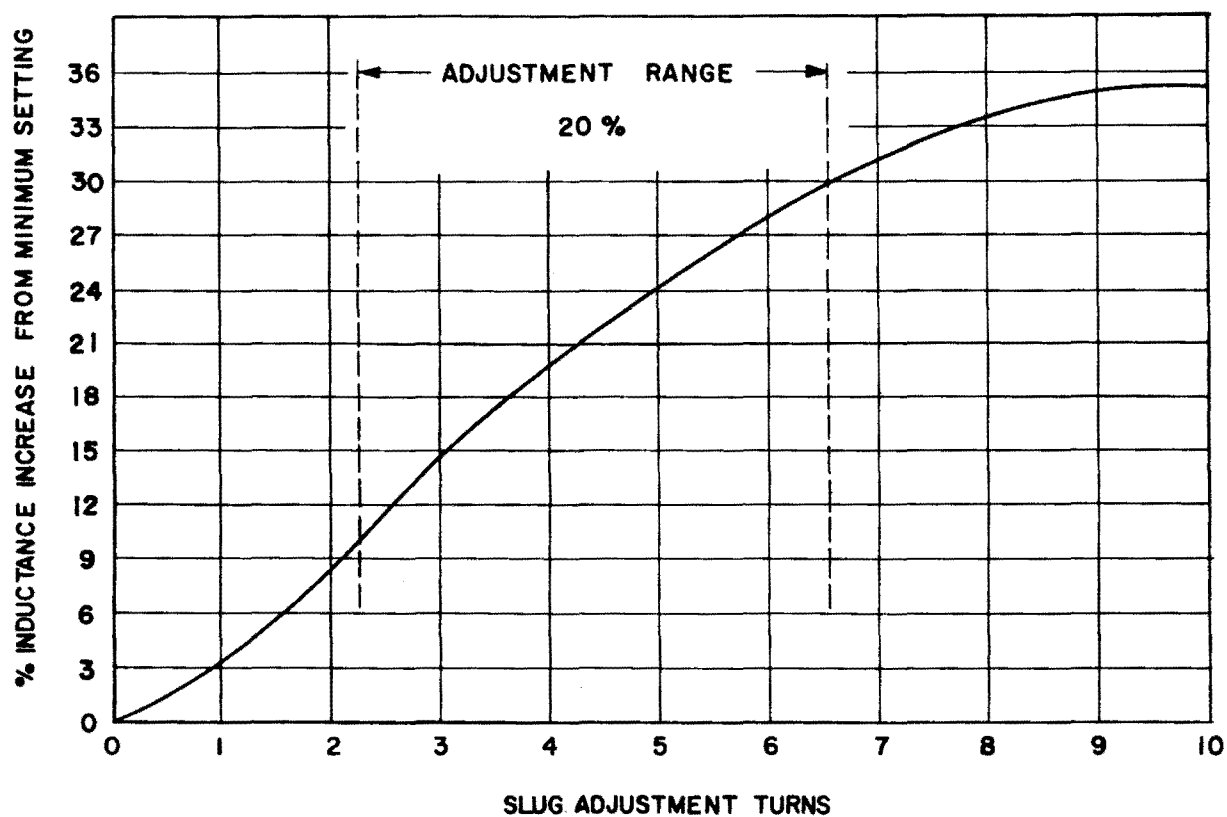


FIG. 2 - TYPICAL ADJUSTMENT VS INDUCTANCE INCREASE FOR THE 1586A-E & L-N INDUCTORS

Note: This curve shows a useful adjustment range of approximately 20 per cent total. However, due to manufacturing variations, the nominal inductance may not fall in the exact center of the range. A minimum adjustment of ± 5 per cent of any specified nominal inductance is guaranteed.

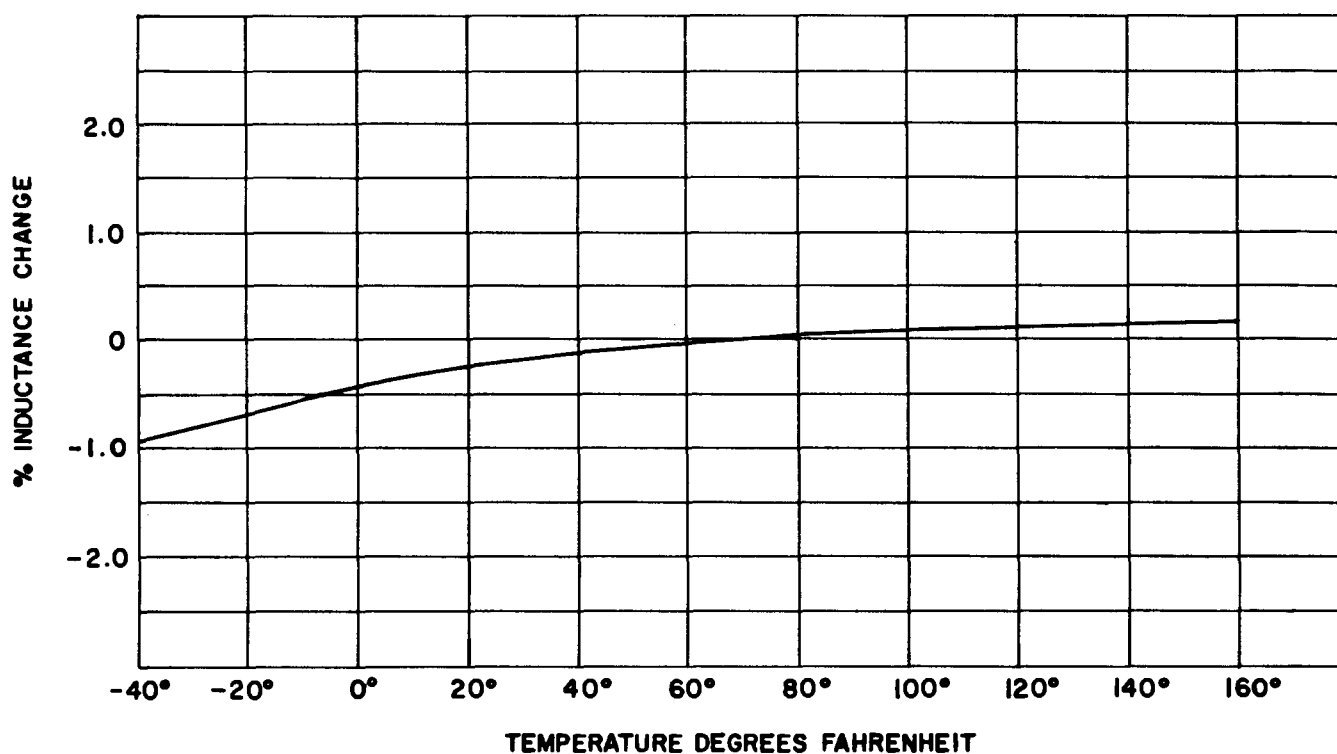


FIG. 3 - TYPICAL INDUCTANCE VS TEMPERATURE CHANGE FOR THE 1586A-E, L, & M INDUCTORS

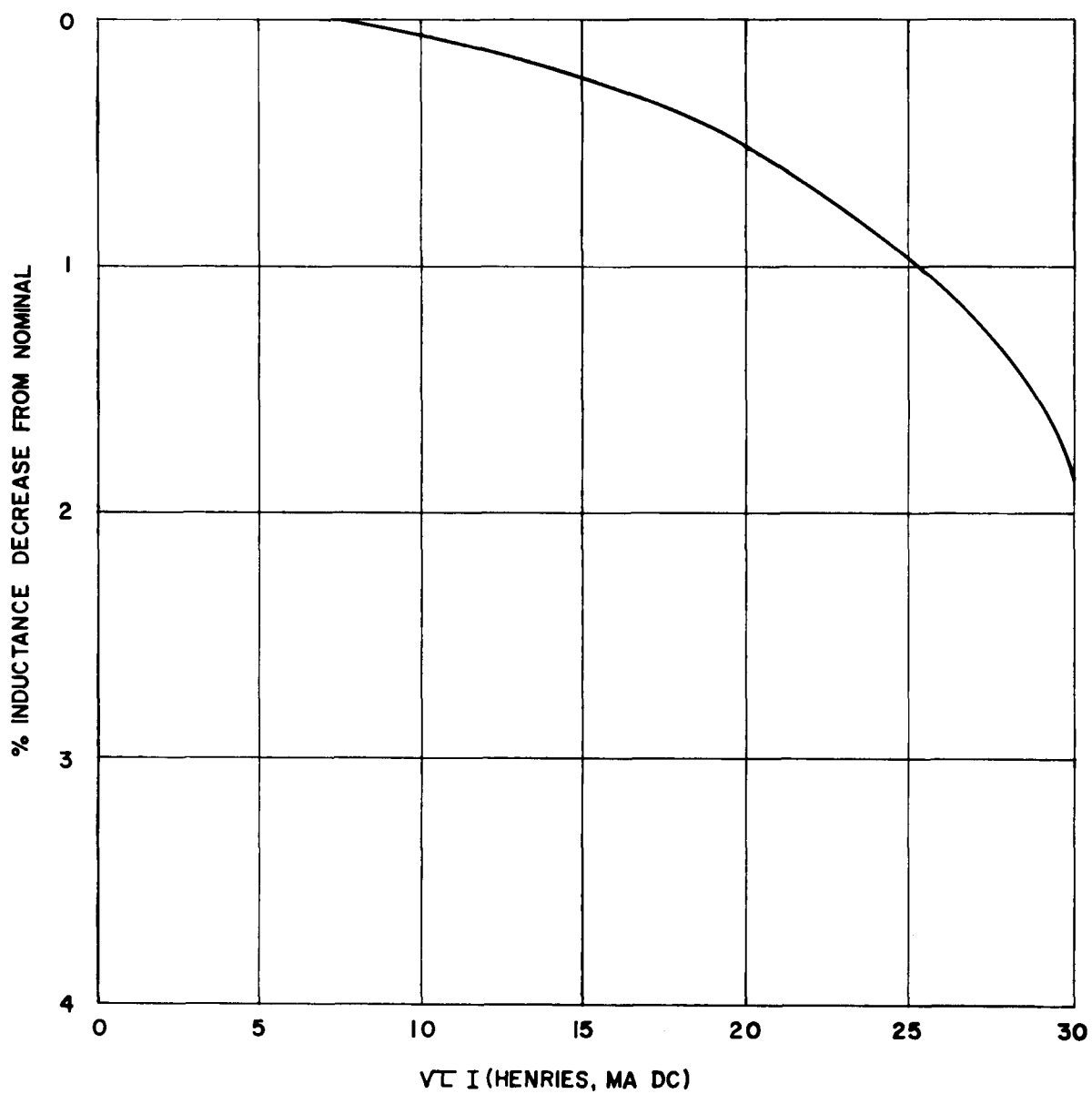


FIG. 7 - TYPICAL REDUCTION OF INDUCTANCE DUE TO SUPERPOSED
DIRECT CURRENT FOR THE 1586G-K & P-T INDUCTORS

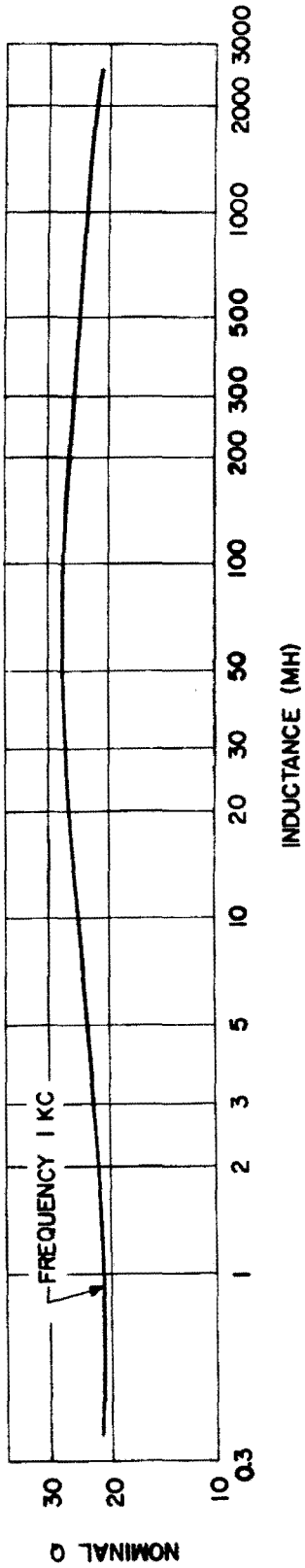


FIG. 8 - NOMINAL Q VS INDUCTANCE FOR THE 1586A INDUCTOR

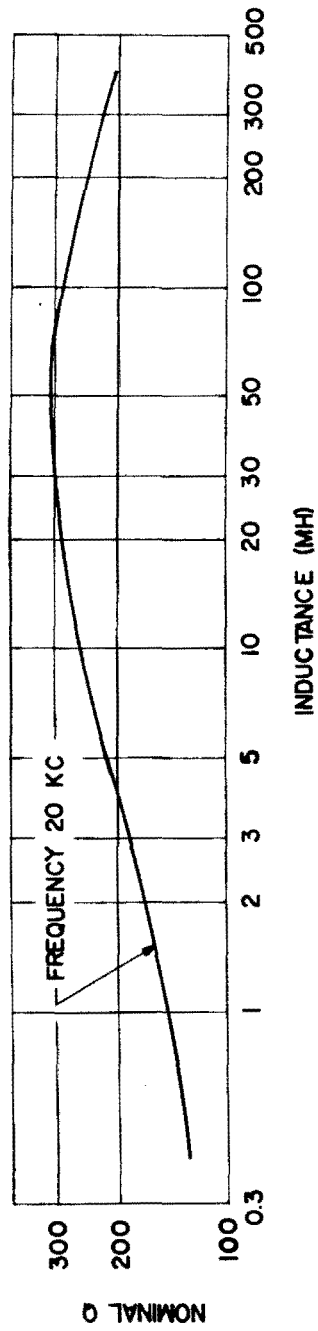


FIG. 9 - NOMINAL Q VS INDUCTANCE FOR THE 1586B & L INDUCTORS

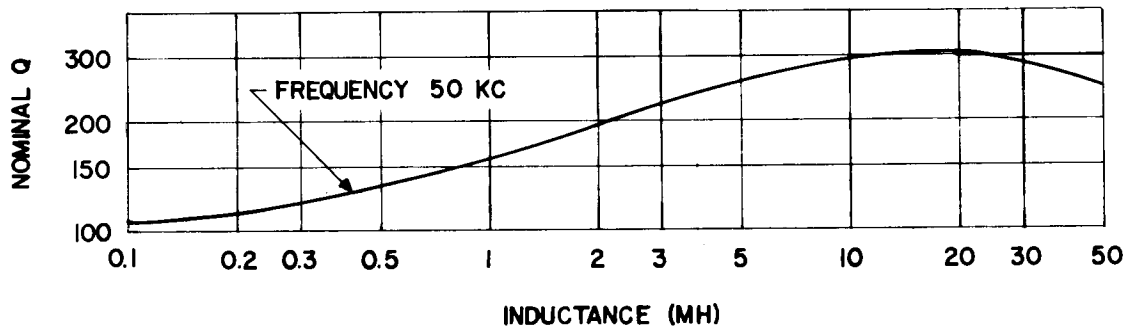


FIG.10 - NOMINAL Q VS INDUCTANCE FOR THE 1586C & M INDUCTORS

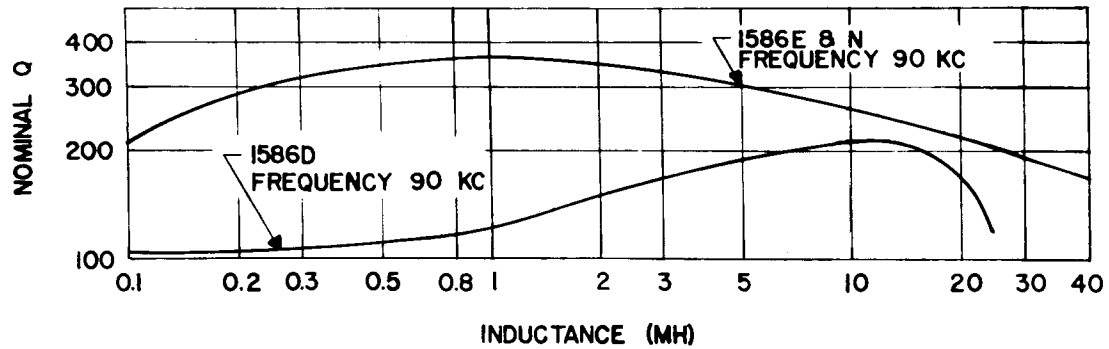


FIG. 11 - NOMINAL Q VS INDUCTANCE FOR THE 1586D, E, & N INDUCTORS

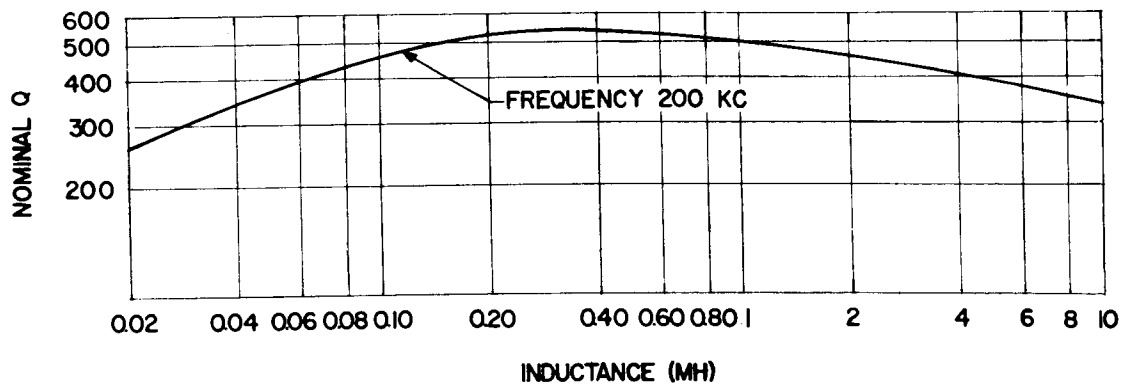


FIG. 12 - NOMINAL Q VS INDUCTANCE FOR THE 1586G & P INDUCTORS

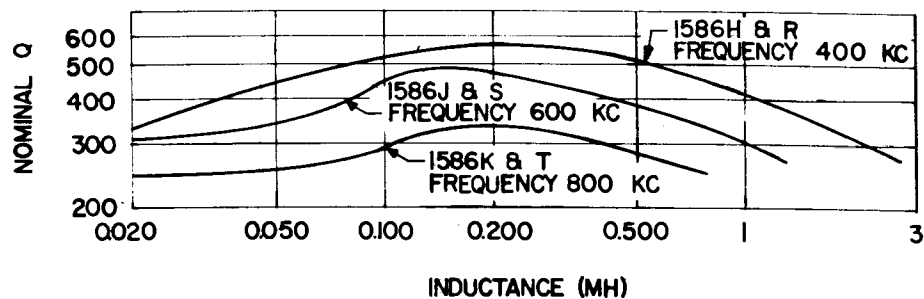


FIG.13 - NOMINAL Q VS INDUCTANCE FOR THE 1586H-K & R-T INDUCTORS

