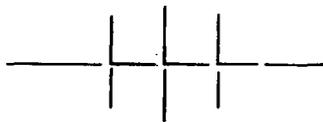


TRANSMISSION TRANSFORMERS  
FOR  
MILITARY APPLICATION

X-75503



30 5/11/4

Prepared by the  
Bell Telephone Laboratories, Inc.  
Murray Hill, N. J.

This bulletin is the property of  
BELL TELEPHONE LABORATORIES, Incorporated.

It is not released for publication.  
When no longer needed, it should be returned  
to the Standard Applications Group.

Issued to

Name \_\_\_\_\_

Location \_\_\_\_\_

Printed in U.S.A.

June 1955

TABLE OF CONTENTS

	<u>Page</u>
1. Introduction . . . . .	1
2. Data and Index Tables . . . . .	1
3. Abbreviations and Definitions . . . . .	2
4. Color Code Designations . . . . .	4

LIST OF TABLES

	<u>Table</u>
D-Specification Transformers . . . . .	1
GA-Specification Transformers . . . . .	2
KS-Specification Transformers . . . . .	3
Blocking Oscillator Transformers . . . . .	4
Deflection Coils . . . . .	5
High Voltage Pulse Transformers . . . . .	6
Low Voltage Pulse Transformers . . . . .	7
Sweep Transformers . . . . .	8
Video Transformers . . . . .	9
Index	



TRANSMISSION TRANSFORMERS FOR  
MILITARY APPLICATION

1. INTRODUCTION

This is one of a series of Engineering Reference Data Bulletins containing information on apparatus designed by the Bell Telephone Laboratories for Military Applications and manufactured by the Western Electric Company or by other suppliers in accordance with specifications prepared by the Laboratories. It is intended for use by engineers of the Laboratories. Items currently rated Manufacture Discontinued are not included.

This information given herein is intended to aid in development work. For any specific circuit arrangement, however, consideration should be given to the existence of new designs which may be more efficient, smaller or less expensive.

Because of space limitations no information is given on characteristics such as transmission loss reflection, crosstalk balance, and certain others which may be of importance for any specific application.

TO OBTAIN THE LATEST INFORMATION AND COMPLETE CHARACTERISTICS FOR ANY APPLICATION, CONSULT THE TRANSMISSION TRANSFORMER DEVELOPMENT DEPARTMENT, 2542.

All GA transformers listed are PREFERRED types except those designated NON-PREFERRED or NP. D and KS transformers are listed for reference purposes only, and are not to be used in new projects as stipulated in Military Engineering Methods Bulletin 2, Issue 2. Products covered by D and KS specifications desired for use in new projects may be covered by GA specifications by application to the Transmission Transformer Development Department 2542.

Non-preferred types are so rated because they are highly specialized, of limited application, of an obsolescent type or relatively expensive. They should not be used in new applications. A few transformers which have been replaced by others are listed for identification purposes only.

2. DATA AND INDEX TABLES

In tables 1, 2 and 3 transformers are listed in order of their D, GA and KS specification numbers. In these tables, transformers for special applications, such as blocking oscillator transformers, pulse transformers, etc. are not described in detail, but references are given to Tables 4, 6, 7, 8, 9 where the significant information is presented. Deflection coils are listed only on Table 5.

In tables 1, 2 and 3 details are given of the more common types such as input, output, modulation and auto

Please substitute this leaf in X-75503 for the one having pages 1 and 2 on it.

transformers; repeat and induction coils. The items covered are as follows:

Specification Number  
Shield (E for electrostatic, M for magnetic)  
Impedance Ratio, Ohms \*  
Maximum DC Resistances for Low and High Windings  
Minimum Inductance of Low Windings (sometimes for high)  
Frequency Range (design range)  
Dimensions  
Weight  
Category  
Low Windings  
High Windings  
Remarks

\*For certain transformers the ratio in ohms is not available. For these, the ratio of turns is given, or voltage ratio or impedance ratio only.

To aid in finding a transformer of a given ratio and frequency range, INDEX TABLES are included which list them in order of impedance ratio in ohms, ratio of turns, impedance ratio or voltage ratio.

In the first group of index tables, the transformers are listed in order of the lower of the two impedances, beginning with the low values and proceeding to the high values. Transformers having more than one ratio are listed at the several appropriate values of impedance. Ratio of turns, impedance ratio and voltage ratio tables are prepared in the same manner.

### 3. ABBREVIATIONS AND DEFINITIONS

Under the specification numbers in the tables, certain MILITARY TYPE NAMES are indicated in abbreviations. The terms "auto transformers" and "induction coils" have the same meanings as in telephone terminology but the others differ somewhat. The abbreviations and their interpretations are given here, and the military definitions follow.

auto	auto transformer
in	input type
ind	induction coil
line	line type (repeat coil)
mod	modulation type
pc	plate coupling type

INPUT TYPE, works from any impedance except an electron tube to a high impedance load (over 2000 ohms). It includes line-to-grid, line-to-grid push-pull input, pickup, bridging and high impedance output microphone transformers.

LINE TYPE, works from any impedance except an electron tube to a low impedance load (2000 ohms or less). Includes low impedance output microphone and low impedance line matching transformers.

MODULATION TYPE, works from a plate or line to a radio frequency lead. Includes plate modulation and cathode modulation transformers.

PLATE COUPLING TYPE, works from a single or push-pull plate to a low or high impedance load. Includes interstage, driver, plate-to-grid audio oscillator, plate-to-grid push-pull input, push-pull output and single tube output.

Certain OTHER ABBREVIATIONS used in the tables are explained here:

av	average
E	electrostatic shield
M	magnetic shield
NP	non-preferred
no reqmt	no requirement
pk	peak
Z	impedance

DIMENSIONS given are overall dimensions, not including terminals or mounting details.

The CATEGORY CODE of X-75502, "Power Transformers and Inductors for Military Application", is used in this bulletin, with the one addition "la", as indicated. The code consists of three symbols. The first symbol describes the class of insulation, the second the grade of sealing and/or encasement, and the third the type of impregnating or potting compound. The symbols are defined as follows:

First Symbol	A	Class A insulation
	H	Class H insulation
Second Symbol	1	Encased and sealed
	1a	Encased, sealed construction but not pressure tested.
	2	Encased, not sealed
	3	Non-encased (open type)
Third Symbol	B	Bituminous compound
	C	Casting compound
	F	Flexseal or equivalent
	G	Gas
	L	Liquid
	S	Silicone
	V	Varnish
W	Wax	

Example: "ALL" denotes Class A insulated, hermetically sealed, liquid-filled unit.

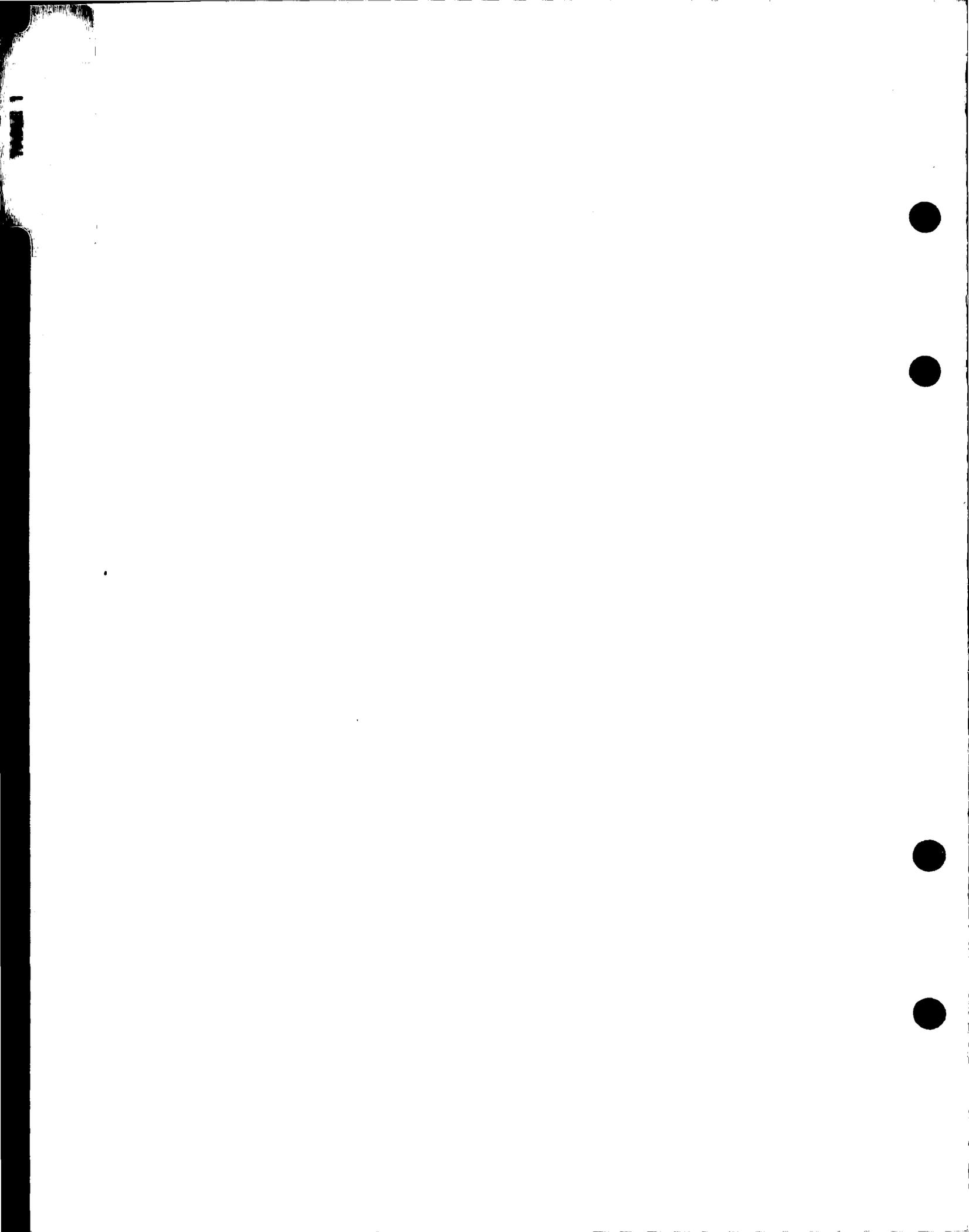
#### 4. COLOR CODE DESIGNATIONS

Some of the transformers are provided with flexible leads instead of terminals. The colors of the leads and the symbols used in the data table corresponding to lead numbers are given in the table below:

#### COLOR CODE DESIGNATIONS

<u>Lead No.</u>	<u>Color</u>	<u>Symbol</u>
1	Red	R
2	Red White	RW
3	Blue	B1
4	Blue White	BlW
5	Green	G
6	Green White	GW
7	Brown	Br
8	Brown White	BrW
9	Orange	O
10	Orange White	OW
11	Yellow	Y
12	Yellow White	YW
Shield	Black	Bk





D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
99932 pc	-	No ratio	14 50	140	0.0292- 0.0298 (5-6)	70 to 100 kc	2-17/32	1-11/16	3-15/32	2.0	A2B	(1-2) (3-4)	(5-6)	Flexible leads. Oscilla- tor coil.
157366 in	-	8000:106,500	920	4540	30 3.5 macc	100 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)	
159627 pc	-	4500:360	9.4	73.5	4.5 high 20 macc	500 to 10,000 cps	3-13/32	2-9/16	3-7/16	2.8	A2B	(1-2)(3-4) (5-6)(7-8)	(9-10)(11-12)	Windings (1-2)(3-4)(5-6) &(7-8) are equal wind- ings. 1500v test on high side.
159747 in	-	100:134,000	21	5100	0.09-0.14 50 macc	400 to 3000 cps	1-3/4	1-5/32	1-21/32	0.8	A2B	(1-2)	(3-4-5)	4 is CT.
159748 mod	-	4500:9000	78	84	1.15-1.60 85 macc	400 to 3000 cps	1-3/4	1-3/4	3-5/16	1.3	A2B	(1-2)	(3-4-5)	4 is CT. test all 1200v.
159749 pc	-	15,000:500	42.6 42.6	1425 1425	7.5 high 17 macc	250 to 3000 cps	1-9/16	1-11/32	3-9/32	1.3	A2B	(1-2) (5-6)	(3-4) (7-8)	Two coils in one case.
159821 pc	M	6000:150,000	645	4300	4.5-5.5	500 to 3000 cps	1-3/4	1-3/4	3-1/4	1.3	A2B	(1-2)	(3-4)(5-6)	Electrically similar to 285B Input.
161135 pc	-	8000:72	2	200	no reqmt	1 to 800 kc	1-3/4	dia	1-15/16	0.8	A1G	(1-2)	(3-4)	600v test on (3-4)
161310														See Table 7
161713 pc	E,M	10,000:10,000	260	260	10 (4-5)	400 to 2200 cps	1-17/32	1-3/8	2-1/4	0.5	A2B	(1-2-3)	(4-5)	2 is CT. Width including mounting studs is approx 1-9/16". 1000v test on (1-3).
161824 line	M	425:600	10	14.5	0.105 (5-6)	3 to 12 kc	1-23/32	1-7/32	3-1/2	1.3	A2G	(1-2)(3-4)	(5-6)	
161876		Similar to	series of 120-type Repeat coils except for finish.											See X-75512
161897 pc	E	4500:600	41	214	7.2 (3-4) 20 macc	35 to 15,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)	(3-4)	Similar electrically to 178D Output.
162037		Similar to	series of 173-type Repeat coils except for finish.											See X-75512
162038 line	-	1:1 turns	83.5	120	12	250 to 3000 cps	3-9/32	1-11/16	3-7/16	2.0	A2B	(1-2)(3-4)	(5-6)(7-8)	Electrically similar to 175A Repeat.
162065 in	-	300:357,000	9.15	4280	No reqmt	250 to 3000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(8-9)	(1-7)	Similar electrically to 626A Input. Has five taps (2,3,4,5,6) spaced at 4 db intervals from termin- al 1 with 7 as common.
162066	-	21,000:600 or 296	19.6	935	20 (7-8) 7 macc	voice	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)or(9-10) (3-4)monitor	(7-8)	(7-8):(3-4) turns ratio 21.6:1. Electrically similar to 500A Output 1000v test on (7-8).

## D-SPECIFICATIONS

TABLE 1-2

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
162116 pc	-	64:1Z	5.9	51	0.03(7-8) 9 kc	6-12 kc	3	dia	3-13/32	10	A1aB	(1-6)	(7-8)	Oscillator tuning coil. Variable core plug.
162194		Similar to series of 94-type Repeat coils except for finish.												
162195 line	-	600:600 + 600			2.5	voice	3-1/8	1-23/32	4-1/4	2.5	A2B	(1-2)	(3-3T-4) (7-8T-8)	Similar electrically to 151B Repeat
162198 in	M	300:142,000	16.6	2415	No reqmt	200 to 12,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)	(7-8)	Similar electrically to the 633E Input
162199 pc	-	6000:600 + 200	32.5	370	5.0 (7-8) 15 mdc	200 cps to 12 kc	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-3)	(7-8)	Inequality hybrid coil
162200 pc	-	1:1	1950	1950	100 2.5 mdc	200 cps 12 kc	3-13/32	2-9/16	3-7/16	3.0	A2B	(1-2)	(3-4)	
162256 line	E	420:2140	92	500	No reqmt	200 to 12,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)	(3-4)	Similar electrically to 170A Repeat. 5 is shield terminal.
162457 pc	-	8000:40	2.65	310	0.035 141 mdc	300 to 3500 cps	1-3/16	1-5/16	3-3/32	0.8	A1W	(1-2)	(3-4)	Operating dc (3-4) 9 ma. 1000v test on (3-4).
162470 in	E	600:100,000	10.3 10.3	1840 1840	375 high 375 high	255 to 3145 cps	3-9/32	1-11/16	3-7/16	2.4	A2B	(1-2) (5-6)	(3-4) (7-8)	Two coils in one case. Electrically similar to 174A Repeat.
162483		Similar to series of 627 Input Transformers except for finish.												
162484 in	E	600:25,000	55	2900	1.5	255 to 3145 cps	2-17/32	1-11/16	3-7/16	1.3	A2B	(1-2)	(3-4)	Electrically similar to 628A Input.
162510 in	E,M	250 or 30:165,000	21.5 3.33	4000	3.8	30 to 10,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-3) or (1-2)	(5-6)	Electrically similar to 285F Input.
162511 pc	-	18,000:100,000	1600	4120	No reqmt	35 to 10,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)	(3-4)(5-6)	Electrically similar to 285J Input.
162512 in	E,M	15,000:80,000	860 av	2700 av	No reqmt	50 to 10,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)	(7-8-9)	Electrically similar to 285K Input. 8 is CT.
162542 in	-	500:3000	24	120	0.15	400 to 4000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)(5-6)	
162730 pc	-	300:75	0.15	1.0	520 $\mu$ h (3-4)	100 to 3000 kc	1-3/4	dia	1-15/16	0.4	A1B	(1-2)	(3-4)	
162772 pc	E	106,000:3,200,000	690	5200	125	400 to 5000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)(3-4)	(7-8)	0.1 mdc in (1-2)(3-4)
163081 line	-	17:4 + 4	0.20	0.085	0.11	500 to 5000 cps	4-23/32	4-7/16	4-17/32	10	A2B	(1-3)	(4-10)	Also 17:5.33 + 5.33 ohms (1-2):(4-10)

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
163115 pc	E	30,000:80	0.8	82	0.0335- 0.0305 high	150 to 180 kc	2-17/32	1-11/16	2-19/32	0.8	A1W	(1-2)(3-4)	(5-6)	Test all 1500v.
163116 in	E	80:100,000	0.15	50	110-95 µh	21 to 27 kc	2-17/32	1-11/16	2-19/32	0.8	A1W	(1-2-3)	(4-5-6)	2, 5 are CTs. Test all 1000v.
163118 line	-	34,000:1000	3.0	94	0.030	10 to 30 kc	4-1/4	dia	1-3/4	1.6	A3L	(1-2-3)	(4-5)	Flexible leads. 2 is CT. Shipped in oil. 5000v test (1-2-3) to (4-5).
163142 pc	-	1:1	2.2	35	0.0294- 0.0306	Voice	2-17/32	1-11/16	2-9/16	0.8	A1B	(1-2-3)	(3-4-5)	Oscillator coil.
163144 pc	-	8000:250	38.5	900	5.0 (3-4) 20 madc	Voice	2-17/32	1-11/16	3-7/16	1.0	A2B	(1-2)	(3-4)(5-6)	Working 10 madc (3-4) (5-6)
163145 pc	-	150,000:50,000	683	1800	12	255 to 3145 cps	2-17/32	1-11/16	3-7/16	1.0	A2B	(1-2)	(3-4)	Working 10 madc (3-4). Silicon steel core. Resembles 199A Output.
163218 in	E	600:100,000	22	4500	175 (3-4) or (7-8)	425 to 3145 cps	3-9/32	1-11/16	3-7/16	2.4	A2B	(1-2) (5-6)	(3-4) (7-8)	Resembles 174A Repeat. Silicon steel core. Two coils in one case.
163247														See Table 6.
163325														See Table 6.
163354 pc	E	4500:600	41	214	7.2 (3-4) 20 madc	35 to 15,000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)	Similar electrically to 178D Output.
163381 line	E	125:600	0.43	5.1	0.16 (1-2)	36 to 84 kc	3-13/32	1-11/16	3-7/16	2.0	A2B	(3-4)(5-6)	(1-2)	Similar electrically to 146H Repeat.
163533 line	E	80:400	0.5	1.2	350 µh	20 kc to 5 mc	1-3/4	dia	1-15/16	0.6	A1B	(1-2)	(3-4)	
163537														See Table 6.
163604 pc	-	3470:600 or 100	58 av 19 av	113 av	5.5 (7-8) 18 madc	250 to 3000 cps	3-9/32	1-11/16	3-7/16	3.0	A2B	(1-2) or (1-5)	(7-8)	Similar electrically to 509A Output. (3-4) monitor. (9-10) feedback.
163612 pc	-	18,000:10,400:394	129 110	230	3.8 (6-7) 60 madc	300 to 3500 cps	3-9/32	2-1/2	2-3/32	2.0	A2B	(6-7) (4-5)	(1-2-3)	2 is CT. Silicon steel core. 2000v test (1-3) to (6-7). 1000v test on (4-5).
163613 in	-	365:6600	105	354	0.95	300 to 3500 cps	2-5/8	1-9/16	1-1/16	0.5	A1W	(1-2-3)	(4-5)	2 is CT.
163620 in	M	50:100,000	1.36	862	61.0 (3-4)	0.5 to 10 kc	1-29/32	1-1/2	1-27/32	0.4	A1B	(1-2)	(3-4)	
163632 in	-	100,000:100,000: 100,000	17.5 35	35	0.0435 0.0445	24 kc	1-5/8	dia	1-7/16	0.6	A2B	(1-2) (3-4)	(5-6)	Tuned externally. Flexible leads. Test all 1000v.

## D-SPECIFICATIONS

TABLE 1-4

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
163648 163649 163650 163651 163678 line		70:700 or 250				4 to 20 mc	12	11-3/8	7	25	A2G			See Table 8. See Table 9. See Table 8. See Table 9. Antenna Coupling Trans- former. D-163679 Repeat Coil in weatherproof case with inductors, pro- tector gaps. Dimensions include terminals and mounting studs.
163679 line	E	70:700 or 250	0.25	0.75	4.4 $\mu$ h (1-2)	4 to 20 mc	4-1/6	3-3/8	3-7/16	1.5	A2W	(G-1-2)	(3-4-5-6-7-8) or(4-5-6-7)	Component for D-163678. Dimensions include ter- minals and mtg lugs. Series capacitors between terms 1 and G and termin- als 5 & 6. 1500v test on (3-8), 1000v on (1-2).
163905 line	E	300:300	18.5	28.5	0.033	10 to 30 kc	2-17/32	1-11/16	2-19/32	0.8	A1W	(1-2-3)	(4-5-6)	2,5 are CTs. Test all 1000v.
164392 pc	-	4500:4.8 or 0.8	0.3	250	5.0 (4-5) 50 made	500 to 3000 cps	2-7/8	2-7/8	3-9/16	2.5	A2B	(1-3) or (1-2)	(4-5)	3000v test on (4-5).
164527														See Table 7.
164579 pc	-	6000:600 +200	32.5	465	5.0	200 cps to 12 kc	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-3)	(7-8)	Inequality hybrid coil. Similar to D-162199 but has monitor winding (9-10).
164661 164672														See Table 6. See Table 6.
164685 in	-	600:120,000	89	5100	0.8	100 to 5000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)	(3-4)(5-6)	Similar to 282B Input, but no shields.
164711 auto	-	75:1 $\pm$	-	4.7	0.024- 0.028 (1-3)	2550 cps	1-1/2	1	2-3/8	0.5	A1W	(2-3)	(1-3)	Oscillator coil.
164859 line	E	600:600	124	100	14	30- 10,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)(3-4)	(7-8-9)	8 is CT. Resembles 170B Repeat. Flexible leads.
164872 pc	-	10,420 or 4065: 6.2	0.24	364 22	3.9(6-7)	500 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-5)	(6-8) or (6-7)	(1-5) tapped.
164873 pc	-	4950 or 1920:7.5	0.24	135	3.9(6-8)	500 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-5)	(6-8) or (6-7)	(1-5) tapped.

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
164874	-	2955 or 1153:7.38	0.24	86	2.8 (6-8)	500 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-5)	(6-8) or (6-7)	(1-5) tapped.
164875 pc	-	700 or 272:7.75	0.24	20.5	0.81 (6-8)	500 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-5)	(6-8) or (6-7)	(1-5) tapped.
164881 pc	-	150,000:50,000 or 132	645	2760	12.0	300 to 3000 cps	2-17/32	1-11/16	3-7/16	2.0	A2B	(1-2) or (5-6)	(3-4)	
164922 line	-	200:600	19.4	56	0.46 to 0.54 high	Voice	3-9/32	1-11/16	3-7/16	2.0	A2B	(4-3)(8-7)	(2-1)(6-5)	Similar electrically to 124B Repeat.
165569 in	E	300:30,000	110	4500	0.77	60 to 5000 cps	3-13/32	2-9/16	3-7/16	2.3	A2B	(2-1)(6-5)	(4-3)(8-7)	Similar electrically to 280A Input.
165570 in	-	600:150,000	23 av	7430 av	No reqmt	250 to 2800 cps	3-1/8	1-23/32	4-1/4	2.2	A2B	(1-2)(3-4)	(5-6)	Mtg Studs on two opposite sides of case. Electric- ally similar to 603A In- put. (1-4) terminated in- ternally in 600 ohms.
165571 pc	E	60,000:600	33.5 av	4950 av	No reqmt	250 to 2800 cps	3-1/8	1-23/32	4-1/4	2.2	A2B	(1-2)	(3-4)	Electrically same as 186A Output. 600 ohm resistor across (1-2).
165572 pc	E	20,000:600	2.2	250	0.045	5 to 30 kc	3-9/32	1-11/16	3-7/16	2.1	A2B	(2-1)(6-5)	(4-3)(8-7)	Similar electrically to 163A Output.
165611 line	E	600:600	13.4	15	0.68	5 to 30 kc	4-9/32	2-9/16	4-11/32	4.0	A2B	(2-1)(6-5)	(4-3)(8-7)	Similar electrically to 123A Repeat.
165620														See Table 5.
165829 in	-	1:1	11,100	102,000	0.88- 1.05	5 to 30 kc	1-11/16	1-11/16	4-13/32	0.8	A2B	(1-2)	(3-4)	Similar electrically to 604A Input. Terminal 4 on side of can.
165830 in	E	400+600:450,000	5.1	25,000	0.017 0.020	5 to 30 kc	3-9/32	1-11/16	3-7/16	2.0	A2B	(1-1T-2) (3-3T-4)	(5-6)	Similar electrically to 605A Input. Terminal 6 on side of case.
165831 in	E	8000:8000	110	100	No reqmt	1 to 150 kc	3-9/32	1-11/16	3-7/16	2.0	A2B	(1-2)(3-4)	(5-6)	Similar electrically to 605B Input.
165832	-	1:6:1 approx turns	0.7	1.6	0.0113 0.0114 (3-4) 20 made	6 to 13 kc tsf	3-9/32	2-9/16	3-7/16	2.0	A1aB	(1-2) (10-16)	(3-4)	Similar to 606A with more inductance adjustments. 5,6,7,8,9 are additional turns on (3-4). Oscilla- tor coil.
165833	-	1:6:1 approx turns	0.75	3.3	2.985- 2.955 mh (3-4)	17.5 to 30 kc tsf	3-13/32	2-9/16	3-7/16	2.0	A1aB	(1-2) (10-16)	(3-4)	Similar to 607A with more inductance adjustments. 5,6,7,8,9 are additional turns on (3-4). Oscilla- tor coil.

## D-SPECIFICATIONS

TABLE 1-6

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
165834 pc	E	80,000:600	-	900	No reqmt	16 to 31 ke tsf	3-9/32	1-11/16	3-7/16	2.0	A2B	(1-2)	(3-4)	Similar electrically to 151E Output. Capacitor in series with (1-2).
165835 pc	E	4000:120 +600	3.7 each	50	0.02(1-2)	5 to 30 ke	3-9/32	1-11/16	4-3/8	2.1	A2B	(1-A-2)(3-B-4)	(5-6)	Similar electrically to 177B Output. Hybrid coil with internal network.
165836 pc	E	80,000:600	14.3	1350	No reqmt	4 to 16 ke	3-9/32	1-11/16	3-7/16	2.1	A2B	(1-2)	(3-4)	Similar electrically to 181C Output.
165964														See Table 6.
165995 line	E	135:600	1.9	8.8	1.8 (4-3)(8-7)	200 cps to 150 ke	3-9/32	1-11/16	3-7/16	2.0	A2B	(2-1)(6-5)	(4-3)(8-7)	Similar electrically to 146A Repeat.
166071 in	M	20,000:80,000	1375	3870	15	200 to 3000 cps	1-11/16	1-3/16	3-3/4	0.8	A2B	(1-2)	(3-4)	Similar electrically to 646B Input.
166165 in	-	50:20,000	46	5000	0.4 70 madc	300 to 2500 cps	2-7/8	2-7/8	3-9/16	2.5	A2B	(1-2)	(3-4)	
166166 in	-	20,000:500,000	1750	12,000	18.5	300 to 2500 cps	2-7/8	2-7/8	3-9/16	2.5	A2B	(1-2)(3-4)	(5-6)(7-8)	
166173														See Table 6.
166264 pc	-	20,900or8075:6.9	0.24	740	5.25 (6-7)	500 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-5)	(6-8)(6-7)	(1-5) tapped.
166356 pc	E	100,000:500	73	4330	0.75 36 madc	500 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)(5-6)	1000v test on high side.
166459 in	E,M	25:100,000	11.3	1460	100 (5-6)	500 to 5000 cps	1-3/4	1-3/4	2-9/16	1.1	A1B	(1-2-3)	(5-6)	2 is CT.
166463 in	E,M	600:25,000	27 av	1170 av	No reqmt	35 to 10,000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2)(3-4)	(7-8)	Temperature range -40°to +160°F. Similar elec- trically to 285E Input.
166464 line	E	135:600	1.68 av	7.6 av	1.8 (4-3)(8-7)	200 cps to 150 ke	3-13/32	1-3/4	4-3/8	2.8	A1W	(2-1)(6-5)	(4-3)(8-7)	Similar electrically to 146A Repeat.
166519 in	E,M	500:250,000	14.8	3600	3.2	150 to 10,000 cps	2-7/8	2-7/8	3-17/32	2.5	A2B	(1-2)	(3-4)(5-6)	Resembles 630A Input.
166638														See Table 7.
166658 line	E,M	600:600	124	100	14	30 to 10,000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)(3-4)	(5-6-7)	6 is CT. Similar to 215A Repeat and KS-9923.
166794 line	E,M	135:135	6.7	7.7	0.35 (1-2)	15 cps to 150 ke	3-9/32	1-11/16	3-7/16	2.0	A2W	(1-2)(3-4)	(5-6)(7-8)	Two electrostatic shields.
166807 in,pc	E	600+600:45,000	108	1900	1.0	200 to 3000 cps	1-3/4	1-3/4	2-25/32	0.5	A1aB	(1-4)(5-8)	(9-10)	Two coil hybrid. 1200v test on (9-10).
166795 line	E,M	600:135	6.7	26.2	0.35(1-2)	15 cps to 150 ke	3-9/32	1-11/16	3-7/16	2.0	A2W	(1-2)(3-4)	(5-6)(7-8)	Two electrostatic shields.

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate-gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
166822 pc	E	3000:135	5 av	50 av	No reqmt	2 to 80 kc	3-13/32	1-11/16	3-7/16	2.0	A2B	(1-2)(5-6)	(3-4)(7-8)	
166833 in	-	600:600 or 12,000	50	45 480	4.9(7-8) 35 made	200 to 3000 cps	1-11/16	1-11/16	3-9/16	1.3	A2B	(1-2-3)	(4-5) or (7-8)	2 is CT. 1000v test on (7-8).
166839 line	M	600:600 or 280 or 60	33 23 10	36	0.36	Voice	1-11/16	1-3/16	3-3/4	1.2	A2G	(1-3) or (2-3) or (1-2)	(4-5-6)	5 is CT.
166863 in	E,M	200:220,000	0.3	30	0.0203- 0.0207 (4-5)	60 kc	2-17/32	1-11/16	3-7/16	2.0	A2B	(1-2-3)	(4-5)	2 is CT. Flexible leads.
166923														See Table 7.
166928 line	E	800:600	48.3	42	35	40 to 10,000cps	3-13/32	1-3/4	4-3/8	2.8	A1W	(3-4)(5-6)	(1-2)	
166939 line	E	500:600+600 two coil hybrid	55	35 (9-10)	0.5 (9-10)	300 to 3000 cps	3-13/32	1-3/4	2-3/16	2.0	A2B	(1-5)(6-2)	(9-10)+ (11-12)	Two coils in one case. (3-4) network.
167048 in	-	600:500,000	1.0	70	No reqmt	45 kc	1-3/4	dia	1-9/32	0.6	A2W	(1-5)	(3-7)	Flexible leads.
167120 in	-	600:1,500,000	6.6	3900	0.2	300 to 4500 cps	1-3/4	dia	1-15/16	0.6	A2B	(1-2)	(3-4)	Bridges 600 ohm line. (300w source).
167247 pc	-	12,500:200,000 or 3125	690	2760 345	17 1 made	500 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(5-6)(7-8) or (3-4)	
167248 in	-	100:140,000	5.1	3940	0.60 1 made	500 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)	
167641 in	E	1600:500,000	109	6930	No reqmt	250 to 3000 cps	3-9/32	1-11/16	3-7/16	2.4	A2B	(1-2-3)	(4-5)	Electrically similar to 287B Input. 2 is CT.
167642 pc	-	No ratio (1-2-3-4):(5-6)	1.25 av	25 av	No reqmt	7-11 kc	3-13/32	2-9/16	3-7/16	1.8	A2B	(1-2-3-4)	(5-6)	Oscillator Coil. Tuned externally. 299A Input.
167643 in	E	600:450,000	25.2	4190	No reqmt	4 to 10 kc	3-9/32	1-11/16	3-7/16	2.4	A2B	(1-2)	(3-4)	Resembles 600A Input. Internal high side resistance termination.
167645 pc	-	21,000:600 (1-2) feedback	13.3	320	11.6(5-6) 7 made	4 to 10 kc	3-9/32	1-11/16	3-7/16	2.4	A2B	(3-4)	(5-6)	Similar electrically to 163C Output.
167646 line	-	600:2000	10.3	45.3	0.82 (3-4)(5-6)	4 to 10 kc	3-9/32	1-11/16	3-7/16	2.4	A2B	(1-2)	(3-4)(5-6)	Similar electrically to 150A Repeat.
167647 line	-	600:1200	9.9	27.6	0.465 (3-4)(5-6)	4 to 10 kc	3-9/32	1-11/16	3-7/16	2.4	A2B	(1-2)	(3-4)(5-6)	Similar electrically to 150B Repeat.
167648 line	-	1600:600 +600	35.0	58.6	3.2 (2-1)(6-5)	250 to 3000 cps	3-1/8	1-23/32	4-1/4	2.5	A2B	(3-3T-4) + (7-7T-8)	(2-1)(6-5)	Similar electrically to 151A Repeat.
167782 pc	-	15,400:1000	3.0	45	0.03	10 to 30 kc	4-1/4	dia	1-3/4	1.6	A3L	(1-2-3)	(4-5)	Flexible leads. 2 is CT. Shipped in oil. Test all 5000v.

## D-SPECIFICATIONS

TABLE 1-8

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
168166 line	E	150:300	2.35	2.30	0.021	10 to 30 kc	2-17/32	1-11/16	2-19/32	0.8	A1W	(1-2)	(3-4-5)	4 is CT. Test all 1000v.
168167 line	E	150:600	2.35	3.12	0.021	10 to 30 kc	2-17/32	1-11/16	2-19/32	0.8	A1W	(1-2)	(3-4-5)	4 is CT. Test all 1000v.
168493 line	E	600:500or235or50	27	17	0.51	Voice	3-1/8	1-23/32	4-15/32	2.5	A2B	(5-6-7) (8-9-10)	(1-2)(3-4)	
168547 line	-	910:4700	80	425	7 (3-4) 1 made	200- 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1B	(1-2)	(3-4)	Test all 1000v.
168602 line	M	600:600or280or60	33	36	0.36 to 0.60	Voice	1-13/16	1-5/16	3-31/32	1.0	A1aW	(1-2-3)	(4-5-6)	5 is CT.
168603 line	-	200:600	19.4	56	0.46-0.54 (2-1)(6-5)	Voice	3-13/32	1-3/4	3-15/32	2.0	A1aW	(4-3)(8-7)	(2-1)(6-5)	
169114														See Table 6.
169206 in	E	80:100,000	0.15	65	230-250 µh	20 to 28 kc	2-17/32	1-11/16	2-19/32	0.8	A1aW	(1-2-3)	(4-5-6)	2,5 are CTs. Test all 1000v.
169271														See Table 6.
169298														See Table 8.
169299														See Table 8.
169322														See Table 9.
169323														See Table 9.
170018 line	E	600:600	18.1	21.5	No reqmt	4 to 31 kc	3-9/32	1-11/16	3-7/16	2.0	A2B	(1-2)(5-6)	(3-4)(7-8)	Similar electrically to 146U Repeat.
170116 in	E,M	100or600or2200: 125,000	98	190	No reqmt	17 to 47 kc	4-1/4	2-9/16	3-1/2	3.5	A2B	(1-6) taps	(7-8)	Tuned externally. Flexi- ble leads. 9 is CT of (1-2-3-9-4-5-6). Mtg studs on two opposite sides of case.
170117 pc	-	No ratio	23	110	0.0176- 0.0184 (5-6)	77 to 106 kc	2-17/32	1-11/16	3-15/32	2.0	A2B	(1-2) (3-4)	(5-6)	Flexible leads. Oscilla- tor coil.
170318 line	-	64,000:4000	1.7	33	0.008	30 to 60 kc	4-1/4	dia	1-3/4	1.6	A3L	(1-2-3)	(4-5)	Flexible leads. 2 is CT. Shipped in oil. Test all 5000v.
170470 pc	E	45,000:1000	185	1905	40 (3-4)	200 to 3000 cps	1-3/4	1-3/4	2-25/32	0.8	A1aB	(1-2)	(3-4)	
170621 pc	-	17,000 :100,000	1400	1525	7.5 26 made	300 to 5000 cps	1-11/16	1-11/16	3-9/16	1.2	A2B	(1-2)	(3-4)(5-6)	Test all 1200v.
171088 pc	-	16,000:96,000	1100	3500	50 1 made	400 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2-3)	(4-5)(6-7)	2 is CT. 1200v test on (1-3).

D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
171125 line	E	125:125	0.6	0.6	No reqmt	35 to 150 kc	3-13/32	1-11/16	3-7/16	2.0	A2B	(1-2)	(3-4)(5-6)	Similar electrically to 146D Repeat.
171144														See Table 9.
171145														See Table 9.
171691 in	-	300:357,000	9	4210	No reqmt	250 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(8-9)	(1-7) taps	Similar electrically to 626A Input. Test all 750v.
171692 pc	-	150,000:50,000	632	2250	25 10 made	255 to 3145 cps	3-13/32	1-3/4	3-15/32	2.3	A1B	(1-2)	(3-4)	Similar electrically to 199A Output. Test all 1000v.
171730 pc	-	27,000:100,000	17.5	35	No reqmt	50 to 60 kc	1-1/2	1	2-3/8	0.3	A1W	(1-2)	(3-4)(5-6)	Test all 1200v.
171731 line	-	2000: 40,000	1.36	28	0.0065	50 to 60 kc	3-1/2	dia	1-11/16	1.8	A3L	(1-2-3)	(4-5)	Flexible leads. 2 is CT. Shipped in oil. 4500v test (1-3) to (4-5).
171732 line	E	80:80	1.5	1.9	0.0022	10 to 70 kc	2-17/32	1-11/16	2-19/32	0.8	A1W	(1-2-3)	(4-5-6)	2,5 are CTs. Test all 750v.
172258 pc	-	20,000:135	38	2100	20 (3-4) 1 made	200 cps to 10 kc	25/32	21/32	1-13/32	0.1	A1W	(1-2)	(3-4)	
172519 line	M	43.5:1 Z	11.3	400	5-8 (3-4)	Voice	1-13/16	1-5/16	4	1.0	A1W	(1-2)	(3-4)	Sealed 189D Repeat.
172521 line	E	600:600 +600	31.8	30.0 (3-4-5)	No reqmt	200 to 3500 cps	3-9/32	1-11/16	3-7/16	2.0	A2B	(1-2)	(3-4-5)+ (6-7-8)	Similar electrically to 146T Repeat.
172554														See Table 7.
172707														See Table 7.
172724	E	1:4.55	2.4	5.0	0.62	20 to 30 kc	3-25/32	2	4-3/4	3.3	A1B	(1-2)	(3-4-5)	4 is CT. Test all 1700v.
172725 pc	-	12:1 Z	1.3	14	0.71	20 to 30 kc	4-1/8	dia	1-7/8	1.6	A3L	(1-2-3)	(4-5)	Flexible leads. 2 is CT. Shipped in oil. Test all 5000v.
172726	-	49:1 Z			0.71	20 to 30 kc	4-1/8	dia	1-7/8	1.6	A3L	(1-2-3)	(4-5)	2 is CT. Flexible leads. Shipped in oil. Test all 6600v.
172750 in,pc	E,M	600+600:45,000			1.0 12 made	200 to 3000 cps	1-3/4	1-3/4	2-25/32	0.5	A1aB	(1-4)(5-8)	(9-10)	Two coil hybrid. 1200v test on (9-10).
172935														See Table 4.
175345														See Table 8.
175346														See Table 8.



D-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
178655 pc	-	8000:1200or165	23	150	3.0(4-6) 10 madc	3000 to 5000 cps	3-1/2	1-3/4	1-3/4	1.4	A1W	{1-3} or {1-2}	(4-5-6)	5 is CT. 1500v test on (4-6).
178747														See Table 6.
178748														See Table 4.
178749														See Table 8.
178750														See Table 8.
178890	E	250:150	0.94	1.06	No reqmt	20 to 1500 kc	1-7/8	1-1/2	1-9/16	0.4	A1W	(3-4)(5-6)	(1-2)	Capacitor approx 280 mmf across (1-2).





TABLE 2

GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate-gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
50037 50205 50206 50207 50321 in	-	50:50,000	21	850	0.040 3.0 made	500 to 1500 cps	1-1/64	dia	1-27/64	0.1	A1W	(1-2)	(3-4)	See Table 6. See Table 4. See Table 7. See Table 9. Working 3 made (1-2). Test all 1000v.
50323 50324 IN 50325 50326 line 50328 in	- - - - E	40,000:800:400 800:100,000 2500:240 600 or 250:800 + 800 300:20,000	60 285 115 64 85 36	3250 5000 250 190 1500	0.040 2 made 0.9 0.30 25 made 0.9 0.27	300 to 2800 cps 300 to 2800 cps 300 to 1700 cps 300 to 2800 cps 4 to 64 kc	1-3/8 27/32 1-3/8 27/32 27/32	1-3/16 9/16 1-3/16 9/16 9/16	1-11/16 1-9/32 1-11/16 1-9/32 1-9/32	0.3 0.1 0.3 0.1 0.1	A1C A1C A1C A1C A1C	(1-2-3) (4-5) (1-3) (1-2)(3-4) (1-3) or (1-2) (1-3)	(6-7-8) (4-6) (5-6) (4-5)+(5-6) (4-6)	Also used 80,000:1600: 800 with 2 made. Test all 1000v.  (1-2) and (3-4) are equal wdgs.  (4-5)+(5-6)  Shield connected to terminal 4.
50329 line 50330 50331 pc 50332 pc 50333 pc	E - E E E	135:33.75 25,000:12 120,000:300:300 120,000:300:300 120,000:300:300	0.7 0.95 10.0 8.4 3.5 3.75 1.75 1.85	4 1030 1700 170 195	0.003 (4-6) 0.9 (4-6) 7 made 1.0 high 0.225 (5-6) 0.06 (5-6)	8 to 120 kc 20 to 120 kc 4 kc 8,12, 16 kc 32 & 64 kc	27/32 27/32 1-3/16 1-3/16 1-3/16	9/16 9/16 1-1/32 1-1/32 1-1/32	1-9/32 1-9/32 1-15/32 1-15/32 1-15/32 1-7/16	0.1 0.1 0.1 0.1 0.1 0.1	A1C A1C A1C A1C A1C A1C	(1-3) (1-3) (1-2) (3-4) (1-2) (3-4) (1-2) (3-4)	(4-6) (4-6) (5-6-7) (5-6) (5-6)	Working 100 made (1-3).  Test all 1000v.  Tuned externally. 6 is CT. Operates with 8 made in (5-7). 1000v test on (5-7).  Tuned externally. Oper- ates with 8 made in (5-6). 1000v test on (5-6).  Tuned externally. Oper- ates with 8 made in (5-6). 1000v test on (5-6).
50341 50342 50416 50434 pc 50458	-	30,000:20,000	1170	1450	24 (3-4) 1.6 made	1.0, 1.6 & 68 kc	1-3/8	1-3/16	1-11/16	0.3	A1C	(1-2)	(3-4)	See Table 4. See Table 4. See Table 4.  See Table 4.

## GA-SPECIFICATIONS

TABLE 2-2

GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
50472 pc	E	5000:1000	60	230	1.0 (3-4) 45 made	4.0 kc	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4)	Test all 1200v.
50705														See Table 6.
50712 pc	-	2.5:1 Z	350	1050	19.25 (3-4) 10 made	120- 600 cps	2-3/8	1-1/8	1-15/32	0.4	A3G	(1-2)	(3-4)	Dried only. Component. Flexible leads. Test all 1000v.
50760 line	E	2000:600	60	34	4	0.3 to 20 kc	1-3/8	29/32	1-15/16	0.3	A1C	(5-6)	(1-2)(3-4)	
50761 line	E	2000:1275	140	34	4 high	0.3 to 20 kc	1-3/8	29/32	1-15/16	0.3	A1C	(5-6)	(1-2)(3-4)	
50762 line	-	135:60	2.1	2.3	0.0465 (1-2)	0.3 to 20 kc	27/32	9/16	1-9/32	0.1	A1C	(3-4)	(1-2)	
50764 pc	-	15,000:600	120	2305	25 high 4.5 made	300 to 3500 cps	1-3/8	1-3/16	1-11/16	0.3	A1C	(1-2)	(3-4)(5-6)	Test all 1000v.
50765 line	-	600:420	66	80	0.468 high	300 to 3500 cps	1-25/32	1-1/32	2-5/32	0.3	A1C	(1-2)	(3-4)(5-6)	Similar electrically to 210 A Rep. Test all 1000v.
50766 line	-	600:700+700	64	120	2.9	250 to 3500 cps	1-25/32	1-1/32	2-21/32	0.3	A1C	(7-8)(9-10)	(1-2-3)+ (4-5-6)	Test all 1000v.
50767 in	E	2400:120,000	245	1980	3.5	0.1 to 20 kc	1-3/8	29/32	2	0.3	A1C	(1-2)(3-4)	(5-6)	
50768 pc	E	6000:185+600	65.8	482	1.3 (3-4) 25 made	0.1 to 20 kc	1-13/32	1-25/32	2-15/16	1.0	A1C	(1-T)+(T-2)	(3-4)	Working 30 made (3-4). Test all 700v.
50769 line	E	550:2400	30.6	84.2	4.87	35 cps to 20 kc	1-25/32	1-13/32	2-15/16	1.0	A1C	(1-2)(3-4)	(5-6)(7-8)	100 made, (5-6) or (7-8); 1400v test on (5-6)(7-8).
50770 pc	-	10,000:100:6	16.2 0.76	370 (1-3)	1.01 (1-3) 5 made	1.0 kc	1-3/8	29/32	2	0.2	A1C	(4-5) (6-7)	(1-2)	Oscillator coil. Tuned externally. (1-3) 73,000 ohms. Test all 1000v.
50771 line	-	600:240 or 60	24.5	50	0.25 25 made	300 to 3500 cps	1-3/8	1-3/16	1-11/16	0.3	A1C	(1-2)(3-4)or (1,3-2,4)	(5-6)	
50772 line	-	600:2400	68	195	0.90	0.3 to 20 kc	27/32	9/16	1-9/32	0.1	A1C	(1-2)	(3-4)(5-6)	
50833 line	-	2000:20	1.15	87.5	1.0 (4-5)	600 cps to 45 kc	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2-3)	(4-5)	2 is CT.
50834 line	-	150:600	15.0	38.0	0.4 (5-6)	350 cps to 35 kc	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)(3-4)	(5-6)	
50835 pc	-	8000:600	33	160	1.4 (4-5)	600 cps to 80 kc	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2-3)	(4-5)	2 is CT.
50836 in	E	500:200,000	115	3200	0.6	200 to 8000 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2-3)	(4-5-6)	2, 5 are CTs.
50837 pc	-	10,000:50,000	290	540	no reqmt	1700 cps	1-9/16	1-9/16	2-11/32	0.2	A1W	(1-2)	(3-4-5)	10 made, max in (1-2). Test all 1500v.

## GA-SPECIFICATIONS

TABLE 2-4

GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Category	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
51117	E	280:135	0.80	2.15	0.135 (1-3)	0.3 to 1000 kc	1-3/8	29/32	2	0.3	A1C	(4-5)	(1-2-3)	2 is CT of (1-3).
51118 line	E	365:600	5.7	18.5	0.437	0.2 to 50 kc	1-3/8	29/32	2	0.3	A1C	(1-2-3)	(4-5)	2 is CT of (1-3).
51119	E	135:415	1.60	5.0	0.306 (3-5)	1 to 1000 kc	1-3/8	29/32	2	0.3	A1C	(1-2)	(3-4-5)	4 is CT of (3-5).
51120	E	365:13,000	5.3	605	0.490	1 to 100 kc	1-3/8	29/32	2	0.3	A1C	(1-2-3)	(4-5)	2 is CT of (1-3).
51121	E	135+135:20,000	7.50	202	0.4(5-6) 10 mdc	1 to 150 kc	1-3/8	29/32	2	0.3	A1C	(1-1T-2) + (3-3T-4)	(5-6)	1T is CT (1-2). 3T is CT (3-4).
51122	E	600:25,200+4200	75.0	1800	9.3 (3-5)	0.2 to 20 kc	1-3/8	29/32	1-15/16	0.3	A1C	(1-2)	(3-4-5)	Test all 700v.
51135														See Table 7.
51156 pc	-	35,000:13,000 or 2000	230	460	30(5-7) 1 mdc	350 cps	1-11/16	1-3/16	3-3/4	0.5	A1W	(1-4) or (2-3)	(5-6-7)	6 is CT. 1100v test on (5-7).
51207 pc	-	570:50		0.05	0.2 μh	50 to 70 mc	1-3/16	1-1/32	1-1/2	0.1	A1C	(1-2-3)	(5-6)	Operating dc(5-6) 8 ma. Capacitor between (2-3).
51208 pc	-	each 28:20:1 turns	330 15	955	14 high 10 mdc	120 to 600 cps	3-7/16	1-1/8	1-7/16	0.8	A3G	(1-2) (5-6)	(3-4)	Two on one base. Flexible leads. Each unit similar to GA-50897. Test all 1000v.
51219 pc	-	5,000:20,000	94.8	228	0.9 50 mdc	3 to 20 kc	1-25/32	1-1/32	2-21/32	0.3	A1C	(1-2)	(3-4-5)	50 mdc in (1-2). Test all 1200v.
51235														See Table 9.
51240 line	E	135:1800	12.8	160	4.2 (5-6)	1 to 150 kc	1-3/8	29/32	2	0.3	A1W	(1-2)(3-4)	(5-6)	50 mdc (1-2)(3-4). 1700v test on (1-2)(3-4).
51241	E	54,000:27,000	85.2	248	2.56 high	1 to 120 kc	1-3/8	29/32	1-15/16	0.3	A1C	(5-6)	(1-2)(3-4)	
51242	E	70:108,000	0.46	110	0.0575 (5-7)	130 to 290 kc	1-17/32	1	1-29/32	0.3	A1W	(1-4)	(5-6-7)	
51243	E	120+480:31,600	59.7	284	0.385	0.3 to 100 KC	1-3/8	29/32	2	0.3	A1C	(1-2)+(3-4)	(5-6)	
51244 pc	E	185+600:16,000	19.8	270	1.6 (5-6)	1 to 300 kc	1-13/16	1-7/16	2-15/16	0.3	A1C	(1-2)+(3-4)	(5-6)	25 mdc (5-6).
51265 line	E	135:600	2.0	5.1	0.056	0.2 to 200 kc	1-3/8	29/32	2	0.3	A1C	(1-2)	(3-4)	
51283														See Table 7.
51312	-	600:26	0.55	3.90	4 (1-2)	12 to 68 kc	1-3/8	29/32	2	0.3	A1C	(3-4)	(1-2)	

GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
50876														See Table 7.
50896 in	-	2.5:1 turns	827	3050	1.0 (1-2)	350 to 450 cps	1-1/32	dia	1-27/64	0.1	A1W	(1-2-3)	(4-5-6)	2,5 are CT's. Test all 600v.
50897 pc	-	28:20:1 turns	15	955 330	14 (3-4) 10 made	120- 600 cps	2-3/8	1-1/8	1-15/32	0.4	A3G	(5-6)	(3-4) (1-2)	Flexible leads. Test all 1000v.
50899														See Table 6.
50900														See Table 4.
50901														See Table 6.
50903 line	E	600 or 135:600	8.4	13.0	2.2 high	250 cps to 68 kc	1-13/16	1-7/16	2-15/16	1.0	A1C	(1-3)(4-6) or (2-3)(4-5)	(7-8)	
50904 line	E	600 or 135:17,600	17.3	825	11 (7-9)	250 cps to 68 kc	1-13/16	1-7/16	2-15/16	1.0	A1C	(1-3)(4-6) or (2-3)(4-5)	(7-8-9)	
50937 ind	-	4.08:1.25:1 turns		22	0.3(1-3)	Voice	1-13/16	1-5/16	3-31/32	1.0	A1W	{4-5} {5-6}	(1-2-3)	Induction coil. 2 is CT. see D-168241.
50940 line	E,M	600:600	55	75	4	200 to 6000 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4)	
50941 auto	-	1:2:4:11.2 turns		280 (4-5)	0.7	200- 6000 cps	1-21/32	1-7/32	2-1/16	0.4	A1W		(1-2-3-4-5)	120- ohms on (1-2),(1-3) or (1-4).
50991 in	M	600:750,000	23	10,500	0.8	300 to 3500 cps	1-11/32	1-7/32	1-7/8	0.3	A1C	(1-3)	(4-6)	Test all 1000v.
50992 pc	-	23,000:600	110	5500	45 high 4.5 made	300 to 3500 cps	1-3/8	1-3/16	1-11/16	0.3	A1C	(1-2)	(5-6)	(3-4) is feedback wdg. Ratio (5-6):(3-4) is 27.8:1. Test all 1000v.
51020 pc	-	90:20,25:1 Z	45 170	350	2.323 high	1 kc	1-3/8	29/32	2	0.2	A1C	{1-2} {3-4}	{3-5}	Tuned externally. Test all 1000v.
51021 pc	-	190:20,25:1 Z	30	355 116	2.323(3-5)	1.6 kc	1-3/8	29/32	2	0.2	A1C	(1-2)	{3-5} {3-4}	Tuned externally. Test all 1000v.
51040														See Table 6.
51051 line	E	25,000:600	58	2500	5.0	30 cps to 10 kc	2-5/16	2-1/16	3-1/8	1.6	A1W	(1-2-3)	(4-5-6)	2 is CT.(4-5)=12,500ohms. 20 made thru CT of(1-3).
51071 line	E	135:600	5.34	26.2	0.70	100 cps to 150 kc	1-13/16	1-7/16	2-15/16	1.0	A1C	(1-2)(3-4)	(5-6)(7-8)	2000v test on(1-2)(3-4).
51089 ind	-	Induction coil		See Specification		Voice	1-13/16	1-5/16	3-31/32	1.1	A1W			
51115	E	280:600	3.4	12.75	0.35	0.2 to 200 kc	1-3/8	29/32	2	0.3	A1C	(1-2-3)	(4-5)	2 is CT of (1-3).
51116	E	240:240	2.08	1.85	0.09	1 to 500 kc	1-3/8	29/32	2	0.3	A1C	(1-2-3)	(4-5)	2 is CT of (1-3).

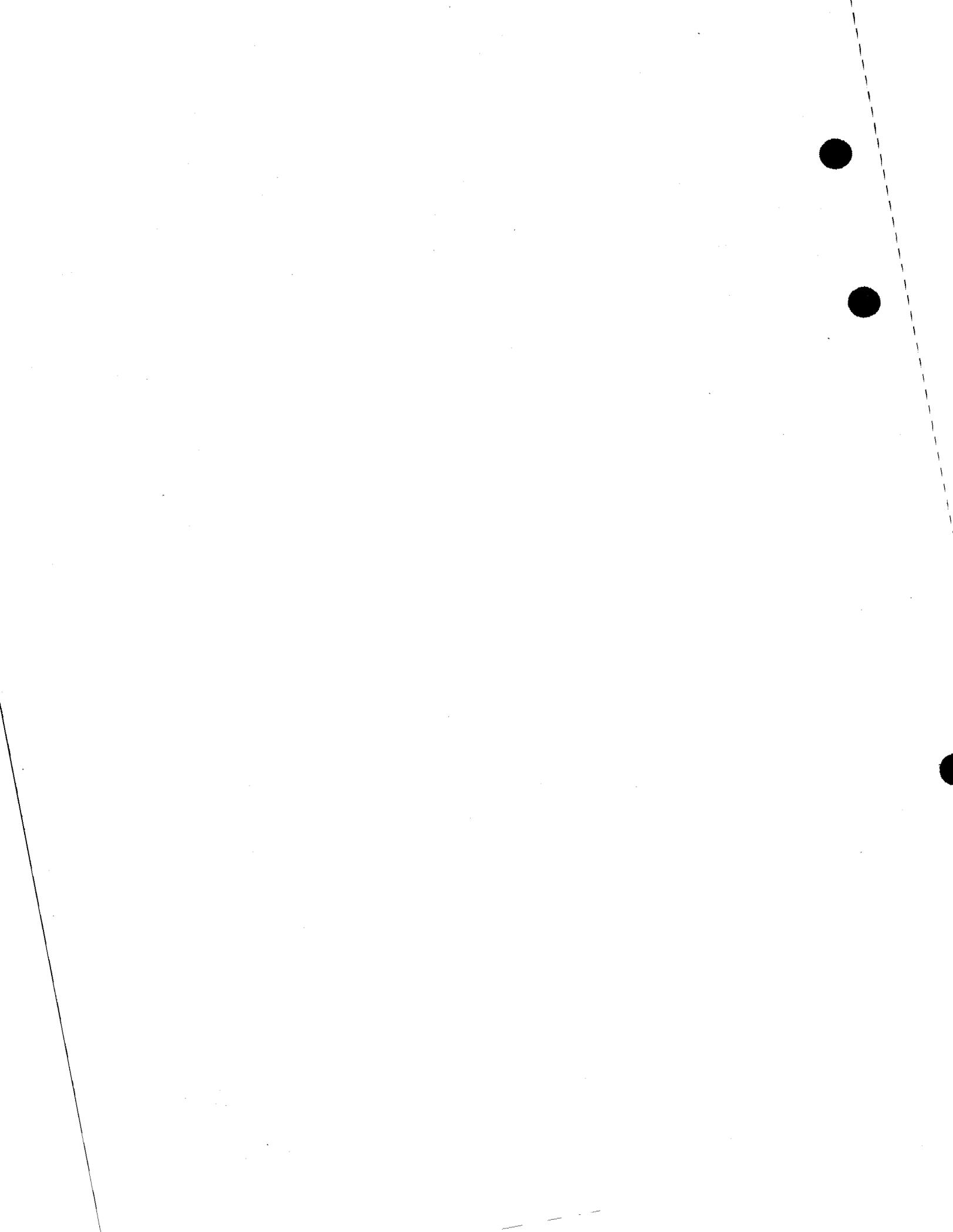
GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
51320	-	20,000:80,000	1750	4200	125	50 to 60 cps	1-25/32	1-1/32	2-21/32	0.6	A1C	(1-2)	(3-4)	
51321	-	25,000:35	2.0	900	1.0 (4-6) 7 made	8 to 20 kc	27/32	9/16	1-9/32	0.1	A1C	(1-3)	(4-6)	Test all 1000v.
51343 pc	-	1:1 turns	0.042	0.042	0.338 μh (3-4)	58 to 62 mc tsf	7/16	dia	29/32	0.5 oz	A3G	(1-2)	(3-4)	200 made pk in (1-2). Test all 1000v.
51392	E	75:75 75:300	-	-	0.317 μh 1.07 μh high	56 to 64 mc	1-3/16	21/32	5/8	0.5 oz	A1C	(3-4) (5-6)	(1-2) (7-8-9)	8 is CT. Two units in one case.
51395 pc	-	75:2.5:1 turns	0.195	1.40	304.5 μh (5-6)	206 to 304 kc	1-9/32	21/32	1-9/16	0.1	A1C	(1-2)(3-4)	(5-6)	Tuned externally. Test all 1000v.
51396 out	E	36:3:1 turns	0.38 0.58	12.5	4080 μh (1-3)	65 to 99 kc tsf	2	dia	2-9/16	0.3	A1W	(4-5) (6-7)	(1-2-3)	8 made in (1-2). 1000v test on (1-3).
51404														See Table 7.
51441 pc	E	7000:250	1.6	6.0	0.007 (3-4)	85 kc tsf	1-1/2	1	2-3/8	0.3	A1W	(1-2)	(3-4)	10 made in (3-4). Test all 900v.
51469 pc	E	5:5:1 turns	180	780 600	30(1-2). 5 made	120 to 880 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(5-6)	(1-2) (3-4)	Test all 1000v.
51531 line	-	600:600	93	120	1.65	400 cps	11/16	9/16	1-5/16	0.8 oz	A1C	(1-2-3)	(4-6)	2 is CT.
51578 pc	-	29.4:4.2:1 turns	2.75 31	225	1.414 (3-5)	1600 cps tsf	1-3/8	29/32	2	0.2	A1C	(3-4) (1-2)	(3-5)	
51594														See Table 6.
51723 line	-	600:600	24.1	27.6	0.6 80 made	voice	1-25/32	1-13/32	2-15/16	1.0	A1C	(1-2)(3-4)	(5-6)(7-8)	80 made in (1-2)(3-4).
51813														See Table 7.
51814 in	-	300:9900	330	4000	3.5	300 to 3000 cps	23/32	9/16	1-15/16	0.1	A1C	(1-3)	(4-5-6)	5 is CT.
51815 pc	-	150:240:6230	95 145	825	0.8 6 made	300 to 3000 cps	1-25/32	1-1/32	2-21/32	0.5	A1C	(1-2-3) (4-5-6)	(7-8-9)	1 made in (7-8-9).
51824														See Table 8.
51864														See Table 4.
51912														See Table 4.
51913														See Table 4.
51926														See Table 4.

## GA-SPECIFICATIONS

TABLE 2-6

GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
51936														See Table 5.
51937														See Table 5.
51939 pc	-	1:13.3:13.3:37.3 turns	0.041 0.320	0.80	1910 $\mu$ h (6-10)	45 kc tsf	2-7/16	1-7/16	2-3/4	1.0	A1C	(1-2) (3-4)	(6-10) (7-9)	8 is CT. Oscillator coil 1 made in (6-10). 1200v test on (6-10).
51940	E	1780:8 turns	0.318	65.8	0.0426 high	64 to 96 kc	1-3/16	1-1/32	1-7/16	0.1	A1C	(4-5)	(1-2-3)	Oscillator coil. 7 is CT.
51956														See Table 7.
51963														See Table 6.
51964														See Table 4.
51965														See Table 6.
51966 in	E,3M	1000:50,000	230	10,500	200	1 to 2000 cps	3-1/2	3	4-13/16	3.9	A1B	(1-2)(3-4)	(5-6-7-8)	Ratio, (1-2)(3-4):(6-7)= 1:1.
51986	-	4.62:1 turns	14.4	470	20 (5-7)	voice	1-25/32	1-1/32	2-21/32	0.5	A1C	(1-2)(3-4)	(5-6-7)	Used in 2 coil hybrid. 6 is CT.
52006														See Table 8.
52013														See Table 4.
52025														See Tables 4,6.
52039	E	500:300	0.92	1.10	0.00407 (1-2)	163.88 kc	1-7/8	1-1/2	3	0.5	A1W	(3-7-6)	(1-2)	Phase shifting network on 3-4-5-6 internally. 4 phase output.
52041 pc	E	10,000:40,000	1700	4440	46 15 madc	60 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)	(3-4-5)	4 is CT. 15 made in(1-2). 1000v test on (1-2).
52053														See Table 4.
52119 mod	-	500:500:500: 500:500	786 673 900	574 990	34.8	26 to 5000 cps	1-25/32	1-3/16	2	0.5	A1C	(1-2) (3-4-5) (6-7-8)	(9-10-11) (12-13-14)	4,7,10,13 are CT's.
52120 mod	-	5000:5000	810	1180	138	26 to 30 cps	1-29/32	1-3/16	2-1/32	0.5	A1C	(1-2)	(3-4-5)	4 is CT.
52125 in	E,M	1000:50,000	240	11,500	238	5 to 300 cps	3-3/4	2-1/4	4-7/16	3.8	A1W	(1-2)(3-4)	(5-6)	Transformer and inductor in one can.
52138														See Table 6.
52145 out	-	4000:4000:1400	212	93	6.0 high 10 madc	300 to 500 cps	1-3/4	1-3/4	3-1/	1.4	A1B	(4-7) (5-6-7)	(1-2-3)	2,6 are CT's. 1250v test on (1-3).
52175	-	25:1 turns	0.87	16.7	0.315 high	900 cps	2-7/16	1-7/16	2-3/4	1.0	A1C	(1-2)	(6-7-8-9-10)	Oscillator coil. 1050v test on (6-10).

GA-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
52176	M	43.8:1 turns	31.5	58.5	2.436 high	495 to 615 cps	3-13/32	1-3/4	3-15/32	2.0	A1B	(4-5-6)	(1-2-3)	2,5 are CT's.
52193 out	-	5000:450	36.2 36.2	282. 282.	2.84 each high 18 made	400 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2) (3-4)	(5-6) (6-7)	Two units in one case. Tuned internally. 1500v test on (5-6-7).
52196 in	E	80:128,000	5.90	9680	98 (3-5) 2 made	380 to 420 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4-5)	4 is CT. 2 made in (3-4-5). 1680v test on (3-5).
52207														See Table 5.
52208														See Table 5.
52313 in	-	600:3200	40	105	1.35	300 to 3000 cps	1-11/32	1-7/32	1-7/8	0.3	A1C	(1-3)	(4-6)	
52411	-	1:2000 turns	-	396	1.5 high	1.0 to 32 kc	1-1/2	15/16	5/16	0.5 oz	A1C	(1-2)	(3-4)	
52431														See Table 7.
52432														See Table 7.
52433														See Table 7.
52453 pc	-	70,000:500 or 50	31	3170	150 high 0.5 made	50 to 7000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-3) or (1-2)	(5-6)(7-8)	Test all 1500v.





1 1/2

17

KS-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
KS-8613 pc	-	30,000:100	10.4	2890	95 (3-4) 2 mdc	50 to 350 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)	1500v test on (3-4)
KS-8614 pc	-	1:1 turns	172	172	0.50 (4-5) 2 mdc	50 to 350 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2-3)	(4-5)	2 is CT.
KS-8615 pc	-	15,000:50	1.81	262	12 (3-5) 5 mdc	50 to 350 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4-5)	4 is CT. 1500v test on (3-5).
KS-8616 in	M	4000:250,000	112	3760	5 2 mdc	50 to 350 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2-3)	(4-5)	2 is CT.
KS-8617 pc	-	100,000:15,000	1480	3000	58 (4-5) 2 mdc	200 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2-3)	(4-5)	2 is CT. 1500v test on (4-5).
KS-8695 pc	M	200:12,500	63.0	660.	0.8	200 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2)	(3-4)	
KS-8696 line	E	30 or 250 or 4000:1000	264 12.2	840	1.0 16 mdc	200 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2) (5-6) (3-4)	(5-7)	
KS-8697 pc	-	20,000:4000 or 1000	240	1650	15 (5-7) 4 mdc	200 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2)(3-4) or (1-2)	(5-6-7)	(1-2) & (3-4) equal turn wdgs. 1000v test on (5-7).
KS-8698 pc	E	20,000:4000 or 250 or 30	330	1310.	8.0 (5-6) 8 mdc	200 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2-3-4)	(5-6)	1000v test on (5-6).
KS-8699 in	-	1:130:100 volts	0.22	310.	8 (5-6)	720 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2) (5-6)	(3-4)	
KS-8715 in	M	30:8330	16.2	2120.	30 (4-5)	300 to 3000 cps	1-11/16	1-3/16	3-9/32	0.7	A2W	(1-2-3)	(4-5)	2 is CT.
KS-8728 pc	-	15,000:4000 or 300	270 71	600	5.2 (4-5) 17 mdc	250 to 3000 cps	2-27/32	1-3/16	1-11/16	1.0	A1W	(3-C) or (2-C)	(4-5)	C is case. Test all 1000v.
KS-8826 pc	E	10,000:600 or 8	86 0.86	1130	8.0 (4-5) 40 mdc	200 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-3) or (1-2)	(4-5)	2000v test on (4-5).
KS-8827 in	E	600:84,000	28	2780	0.46	200 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)	(3-4)(5-6)	2250v test on (3-4) (5-6), 1000v on (1-2).
KS-8858 pc	-	10,000:500 or 125 or 30	44	1050.	70 (1-4)	50 to 60 cps	4-27/32	4-11/16	5-5/16	14.0	A1aB	(5-6-7-8)	(1-2-4)	2 is CT. 2500v test on (1-4), 1000v on (5-8).
KS-8967 pc	-	6000:20	1.25	360	28 (3-5) 3 mdc	20 to 100 cps	4-19/32	3-7/16	4-13/16	9.0	A1aB	(1-2)	(3-4-5)	4 is CT. 1500v test on (3-5), 1000v on (1-2).
KS-9012 pc	-	2000:35	2.15	30.5	1.6 (3-4) 150 mdc	210 cps	3-11/16	2-13/16	4-3/8	4.8	A1aB	(1-2)	(3-4)	1500v test on (3-4).
KS-9126 pc	-	15,000:2110	122	805	2.5- 3.8	130 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4-5)	4 is CT. 2000v test on (3-5).
KS-9135														See Table 7.

## KS-SPECIFICATIONS

TABLE 3-2

KS-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
KS-9136	-													See Table 7.
KS-9152	-	No ratio	2.94		8-11 mh (3-4)	80 kc	1-1/8	d1a	1-7/16	0.1	A3V	(1-2)	(3-4)	Adjustable core. Oscillator coil.
KS-9205	-	No ratio	55		0.085- 0.115 (3-4)	8 kc	1-1/8	d1a	1-7/16	0.1	A3V	(1-2)	(3-4)	Adjustable core. Oscillator coil.
KS-9332 in	-	200:25,000	76	4200	1.2 to 2.4	10 to 500 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4)	
KS-9348 pc	-	12,000:120,000	985	4240	9.5 30 mada	240 to 1360 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)	(3-4-5)	4 is CT. Test all 1500v.
KS-9362 pc	-	75,000:100,000	1240 (1-A)	4050	18.5- 22.6 (1-A) 0 or 1 mada	165 to 300 cps	3-13/32	1-3/4	2-27/32	1.6	A1W	(1-A-2)	(3-4-5)	4 is CT. Double tuned band pass. 1000v test on (1-2).
KS-9363 pc	-	329,000:329,000	1503	3820	2.95- 3.61 (1-A) 0 or 1 mada	210 to 270 cps	3-13/32	1-3/4	2-27/32	1.6	A1W	(1-A-2)	(3-4)	Double tuned band pass.
KS-9364 pc	-	10.8:0.50:54:27 volts	205 23 0.045	49		240 cps	2-17/32	1-11/16	2-19/32	0.8	A1W	{10-11} {1-2-3} {4-5-6}	(7-8-9)	1200v test on (7-9)
KS-9365 in	-	100:160,000	25.4	1350	180 (3-4)	300 to 3000 cps	1-21/32	1-7/32	2-1/32	0.4	A1W	(1-2)	(3-4)	
KS-9374 in	E,M	17:68,000	3.1	4160	0.55	60 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4-5)	4 is CT.
KS-9375 pc	-	9600:600	26.3	265	1.2	60 cps	3-13/32	1-3/4	3-15/32	3.0	A1B	(1-2-3)	(4-5-6)	2,5 are CTs. 2500v test on (4-6).
KS-9380														See Table 5.
KS-9390 pc	-	9000:30	2.24	246	0.18 71 mada	60 cps	3-11/32	2-9/16	4-3/8	4.5	A1B	(1-2)	(3-4-5)	4 is CT. 1500v test on (3-5).
KS-9450 in	M	48:10,000	13.5	1150	0.35 2 mada	50 to 9000 cps	1-3/4	d1a	1-31/32	0.5	A1W	(1-2)	(3-4)	
KS-9461 pc	-	20:1:1 turns	87 270	4020	2.3 (1-3) 1.5 mada	150- 250 cps	1-3/4	1-3/4	3-1/2	1.4	A1aB	{4-5-6} {1-2-3}	(7-8)	2,5 are CTs.
KS-9467 pc	E	4150:600	32	290	3 (3-4) 10 mada	800 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)	(3-4)	Test all 1500v.
KS-9496 pc	-	9000:9	0.30	95	19 (5-7) 50 mada	100 to 10,000 cps	4-27/32	4-11/16	5-11/32	14.0	A1B	(1-2)(3-4)	(5-6-7)	6 is CT. 4200v test on (5-7).
KS-9512 pc	-	5000:90	20.1	875.	20 (3-4) 34 mada	42 to 52 cps	3-13/32	1-3/4	3-15/32	3.0	A1B	(1-2)	(3-4)	2000v test on (3-4).
KS-9518 mod	-	10,000:4100	116	370	2.2 75 mada	300 to 3000 cps	1-3/4	1-3/4	3-5/16	1.4	A1B	(2-4)	(1-2-3)	Replaces KS-9366 Output. 2 is CT of (1-3). Test all 1500v.

KS-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
KS-9519 pc	-	200,000:50,000	2110	3310	160 0.2 made	200 to 3000 cps	1-3/4	3-3/4	3-1/2	1.4	A1B	(1-2)	(3-4-5)	4 is CT. 1500v test on (3-5), 1000v on (1-2).
KS-9521 pc	E	3700:400		17.2	0.0072 high	21 to 26 kc	4-19/32	3-7/16	5-5/16	5.5	A1B	(1-2)(3-5)	(7-8-9)	8 is CT. Air core. Terminals 6 and 4 provide ±10% inductance change on low side to facilitate tuning. 2500v test on (7-9), 1500v on other
KS-9523 in	E	300+300:100,000	42	4000	0.015	10 to 30 kc	3-11/32	2-9/16	3-13/32	4.0	A1W	(1-2-3)+(4-5-6)	(7-8)	2,5 are CTs.
KS-9536 in	M	50:4050	10.5	450	0.03	250 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2)	(3-4)	
KS-9551 in, pc	E	60,000:600	1.6	220	no reqmt	88 to 108 kc	1-3/4	1-3/4	2-25/32	0.5	A1B	(1-2)(3-4)	(5-6)	Tuned externally at 98kc.
KS-9562														See Table 4
KS-9563														See Table 6
KS-9564														See Table 4
KS-9565														See Table 6
KS-9629 pc	-	15.2:1 Z	4.3	55.	2.0(3-4) 35 made	0.1 to 50 kc	3-11/32	1-11/16	3-13/32	2.1	A1W	(1-2)	(3-4)	Works out of 100w on (3-4).
KS-9634	-	no ratio	49.5	46.5	0.0159 (1-2)(3-4)	16.25 kc	1-3/8	dia	1-1/4	0.1	A3F	(1-2)	(3-4)	Oscillator coil. Adjustable core. Test all 1000v.
KS-9635	-	no ratio	26.5	24.7	0.030 (1-2)(3-4)	8.06 kc	1-5/8	dia	1-1/4	0.1	A3F	(1-2)	(3-4)	Oscillator coil. Adjustable core. Test all 1000v.
KS-9643														See Table 4
KS-9644														See Table 7
KS-9647														See Table 5
KS-9649 in	M	450:72,500	150	3000	1.8	400 to 2400 cps	1-3/4	dia	1-31/32	0.4	A1W	(1-2)	(3-4-5)	
KS-9733 in	E, M	40:10,000	4.0	1400	0.08	15 to 60 kc	3-11/32	2-9/16	3-13/32	4.0	A1W	(1-2)(3-4)	(5-6)	Two electrostatic shields. Test all 1000v.
KS-9734 line	E	100:1 Z	10.3	1030	0.6	0.2 to 10 kc	2-5/8	2-5/16	3	1.9	A3L	(1-2) (3-4)	(5-6)(7-8)	NP. component. 2500v test on (5-8)
KS-9735 in	E, M	1:1800 Z	4.1	4200	0.75	0.2 to 10 kc	3-13/32	2-21/32	3-1/2	4.1	A1B	(1-2)(3-4)	(5-6)	Equal turn wdgs (1-2) & (3-4)

## KS-SPECIFICATIONS

TABLE 3-4

KS-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
KS-9798														See Table 6.
KS-9800 pc	-	2:1.1:1 turns	19.0 14.1	565	0.65 21 mada	380- 520 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(3-4-5) (1-2)	(6-7)	4 is CT. (3-4):(4-5) well balanced. 1600v test on 6-7, 1000v on other.
KS-9835 pc	M	100,000:2500	130	1380	1.75	380 to 500 cps	1-3/4	dia	1-15/16	0.5	A1W	(1-2)	(3-4)	
KS-9862 pc	-	50,000:25,000	800	2130	1.90 (1-2) 6 mada	380 to 420 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2-3)	(4-5-6)	2,5 are CTs. Balanced low wdgs. 1100v test on (4-6).
KS-9863 pc	-	5000:4000	550	245	6.5 (5-6) 60 mada	350 to 450 cps	3-13/32	1-3/4	3-15/32	2.1	A1W	(1-2)(3-4)	(5-6)	(1-2) & (3-4) well- balanced 1400v test on (5-6).
KS-9864 pc	-	1:2 Z	1720	3640	12 1 mada	400 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2-3)	(4-5-6)	2,5 are CTs. 600v test on (1-3).
KS-9880	-													See Table 5.
KS-9888 in	M	30:300,000	0.71	3530	0.2	300 to 5000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)	(3-4)	
KS-9894 in	E,M	250 or 30:165,000	21.5	4000	3.8	30 to 10000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2-3)	(5-6)	Electrically similar to 285F Input.
KS-9895 pc	-	21000:600 or 295 or 45	19.5 101 15.8	955	20.0 (7-8) 7 mada	200 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2) (9-10) (3-4)	(7-8)	Electrically similar to 536A Output. 1000v test on (7-8).
KS-9897 pc	E	70,000:5000 or 50	31	3170	150 High 0.5 mada	50 to 7,000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2-3)	(5-6)(7-8)	750v test on (1-3), 1500v on other.
KS-9899 in	M	600:60,000	90	1200	45 (3-4)	500 cps	1-3/4	dia	1-31/32	0.4	A1W	(1-2)	(3-4)	
KS-9900 pc	M	2,000,000:20,000	42	3600	8 1 mada	600 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2-3)	(4-5)	2 is CT. 2100v test on (4-5), 1000v on (1-3).
KS-9901 line	-	1200:1200	63.9	73.3	no reqmt	150 to 3000 cps	1-21/32	1-7/32	1-27/32	0.7	A1W	(1-2)	(3-4)	Test all 1000v.
KS-9918 in	-	82:60,000	8.3	2240	40 (3-4) 2.25 mada	300 to 3500 cps	1-21/32	1-7/32	1-27/32	0.7	A1W	(1-2)	(3-4)	Test all 700v.
KS-9921 ind.	-	1:0.98:1.3 turns			0.031	Voice	1-13/16	1-5/16	3-31/32	1.0	A1W	(3-4) or (5-6) (1-2)	(4-5)	Induction coil.
KS-9923 line	E,M	600:600	124	100	14	30 to 10,000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)(3-4)	(5-6-7)	Electrically similar to 170B Repeat. 6 is CT. Test all 750v.
KS-9928 pc	-	30,000:300	18	1985	0.196 20 mada	Voice	2-17/32	1-11/16	1-13/16	1.0	A1W	(1-2)	(3-4-5)	4 is CT. 700v test on (1-2), 1000v on (3-5).

KS-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
KS-9929	-	6.25:1 Z	827	3050	1.0 (1-2)	400 cps	1-1/32	dia	1-13/32	0.1	A1W	(1-2-3)	(4-5-6)	2,5 are CTs. Test all 600v.
KS-9934 line	E	600:250	1.5	4.0	no reqmt	60 to 64 kc	3-13/32	1-3/4	4-3/8	2.6	A1B	(3-4-5)	(1-2)	4 is CT. Similar elec- trically to 146F Repeat.
KS-9935 in	E	25,000:175,000	17	150	0.035 (3-4)	64 kc	2-1/2	1-11/16	3-7/16	1.3	A1B	(1-T-2)	(3-4)	T is CT. Similar elec- trically to 619A Input.
KS-9936 pc	E	20,000:600	12	240	0.15(4-5)	60 to 64 kc	2-1/2	1-11/16	3-7/16	1.3	A1B	(1-2-3)	(4-5)	2 is CT. Similar elec- trically to 151B Output. Test all 750v.
KS-9937 pc	-	50,000:72	1.5	175	0.125(3-4)	64 kc	2-1/2	1-11/16	3-7/16	1.3	A1B	(1-2)	(3-4)	Test all 750v.
KS-9938 in	E	25 + 25:25,000	10	1200	1680- 1730uh	50 to 60 kc	3-11/32	2-9/16	3-13/32	1.7	A1W	(1-2-3)(4-5-6)	(7-8)	Air core. 2 and 5 are CTs. Test all 1000v.
KS-9939 pc	E	3500:1000	1.05	13	4630uh (3-5)	50 to 60 kc	4-19/32	3-7/16	5-5/16	5.4	A1B	(1-2)	(3-4-5)	Air core. 4 is Ct. 1500v test on (1-2), 2500v on (3-5).
KS-9945 pc	-	12,000:1000	195	1780	50 (4-5) 2 made	60 to 10,000 cps	2-17/32	1-11/16	2-9/16	0.8	A1W	(1-2-3)	(4-5)	2 is CT. Electrically similar to 169A Output. 750v test on 4-5.
KS-9946 line	E,M	5000:650	80	570	36 (3-5)	35 to 5000 cps	1-3/4	dia	1-31/32	0.4	A1W	(1-2)	(3-4-5)	4 is CT.
KS-9948														See Table 6.
KS-9949														See Table 6.
KS-9951 pc	E	3000:1500 or 1000 or 500	20	16	0.12 (1-2) 50 made	600 to 1000 cps	3-11/16	2-13/16	4-3/8	5.0	A1B	(3-4-5-6)	(1-2)	Tuned externally. 1300v test on (1-2).
KS-9952 in	E	50:60,000	2.1	560	0.3 to 0.36 (4-6)	50 to 60 kc	2-17/32	1-11/16	2-19/32	0.8	A1B	(1-2-3)	(4-5-6)	2,5 are CTs. Test all 1200v.
KS-9953 pc	-	5450:1000	18	92	1.5 30 made	300 to 5000 cps	3-11/32	2-9/16	3-1/2	3.3	A1B	(4-5-6)	(1-2-3)	2,5 are CTs. 1500v test on (1-3).
KS-9954 pc	-	4000:4000	330	455	2.0 15 made	400 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4-5)	4 is CT.
KS-9958 pc	E	4500:600	41	214	7.2 (3-4) 20 made	35 to 15000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)	(3-4)	Similar electrically to 178D Output.
KS-9961 in	-	1:100 Z	143	3250	0.9	320 to 450 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4)	
KS-9962 pc	-	20,000:4000	480	1650	15 (5-7) 4 made	400 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2) (3-4)	(5-6-7)	6 is CT. (1-2) & (3-4) equal wdgs 1000v test on (5-7).

## KS-SPECIFICATIONS

TABLE 3-6

KS-	Shld	Impedance Ratio Ohms	Max DC Resistance Ohms		Min Induct Low Wdgs Henrys	Frequency Range	Dimensions - Inches			Wt Lbs	Cate- gory	Low Windings	High Windings	Remarks
			Low Wdg	High			Length	Width	Height					
KS-9986 pc	-	20:4:1 $\Sigma$	28 14	12	0.00198 (5-6)	110 to 125 kc	1-3/4	1-3/4	2-25/32	0.5	A1B	(3-4) (1-2)	(5-6)	Similar electrically to 289A Input. Test all 1000v.
KS-9998 pc	-	9600:1200	87	330	4 25 mada	55 to 65 cps	3-13/32	1-3/4	3-15/32	2.0	A1B	(1-2)	(3-4-5)	Tuned to 60 cps ex- ternally 4 is CT. 1500v test on (3-5), 1000v on (1-2).
KS-9999 pc	-	4500:18	0.19	24	5.0 (5-7) 50 mada	300 to 6000 cps	4-27/32	4-11/16	5-11/32	1.4	A1B	(1-2)(3-4)	(5-6-7)	6 is CT. 4350v test on (5-7).
KS-13023 line	E	1:1	1825	2750	110	380 to 420 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4)	
KS-13028 pc	-	64:1 $\Sigma$	23	1490	0.14 60 mada	100 or 400 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4)	Test all 600v.
KS-13029 pc	E	20,000:4000 or 250	245	1310	7 (4-5) 5 mada	300 to 3000 cps	1-29/32	1-1/2	1-27/32	0.4	A1W	(1-2-3)	(4-5)	800v test on (4-5).
KS-13032 pc	-	1,000,000:100	4.2	1150	3 to 8 high	10 kc	1-21/32	1-7/32	2-1/16	0.4	A1W	(1,3-2,4)	(5-6)(7-8)	1000v test on (5-6) (7-8)
KS-13058 line	-	1.69:1 $\Sigma$	24.9	54.1	3.0	380- 550 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2-3)	(4-5)	2 is CT. (1-2) & (2-3) well balanced.
KS-13080														See Table 7.
KS-13093 pc	E	21,000:600 or 295	43 122	1210	20 (5-6) 7 mada	200 to 3000 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2)(3-4) or (7-8)	(5-6)	1000v test on (5-6), 750 on other.
KS-13094														See Table 5.
KS-13114														See Table 4.
KS-13124 in	-	50,000:112,500	2370	3630	160	60 cps	1-3/4	1-3/4	3-1/2	1.4	A1W	(1-2-3)	(4-5-6)	Square wave on (1-3). 2,5 are CTs. 1000v test on (1-3), 1500v on (4-6)
KS-13161 pc	-	2:1 $\Sigma$	1850	1850	2 (1-2) 6 mada	350 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2-3)	(4-5-6)	2,5 are CTs. 1100v test on (4-6).
KS-13162 pc	M	5.45:1 $\Sigma$	1230	3100	172	60 cps	1-3/4	1-3/4	3-1/2	1.4	A1B	(1-2)	(3-4-5)	4 is CT. 1200v test on (3-5), 1000v on (1-2)
KS-13191 pc	-	10,000:20	1.25	350	0.055 90 mada	60 cps tuned	3-13/32	1-3/4	3-15/32	2.0	A1B	(1-2)	(3-4-5)	4 is CT. 1500v test on (3-5).
KS-13197														See Table 6.
KS-13707 pc	-	10,000:22,500	1240	2740	10 6 mada	100 to 3500 cps	1-21/32	1-7/32	2-1/16	0.4	A1W	(1-2)	(3-4-5)	4 is CT. 1500v test on (1-2), 700v on (3-5).
KS-13708 pc	-	9000:4000	49	263	3 83 mada	100 to 3500 cps	3-19/32	1-27/32	2-23/32	2.4	A1W	(1-2)	(3-4-5)	4 is CT. Test all 1700v.





Designation	Turns Ratio		Pulse Duration Microseconds	Operating Volts to Ground, dc	Weight lbs.	Dimensions - Inches			Mounting	Category	Remarks
	Ratio	Windings				Length	Width	Height			
GA-51926	1:1:1	(1-2):(3-4):(5-6)	35	300	0.2	1-5/16	5/8	1-3/4	SS	AlW	Do not use for new application.
KS-9562	1:2.9:2.9	(1-2):(3-4):(5-6)	15	300	0.8	2-17/32	1-11/16	2-19/32	SS	AlB	
D-178748 input	2:1:1 Turns	(1-2):(3-4):(5-6)	8.3	300	0.4	1-21/32	1-7/32	2-1/32	SS	AlW	
GA-51912	2:2:1	(1-2):(3-4):(5-6)	7.0	250	0.9	1-29/32	1-17/32	2-21/32	SS	AlW	
GA-52013	2:2:1:1	(1-2):(3-4):(5-6):(7-8)	6-8.5	(1-2) 250 others 80	0.1	1-3/8	29/32	1-3/16	SS	AlW	
KS-13114	1:1:1	(1-2):(3-4):(5-6)	4.0	250	0.1	1-1/32	d1a	1-13/32	SS	AlW	
GA-51913	2:2:1	(1-2):(3-4):(5-6)	3.5	250	0.7	1-29/32	1-17/32	2-21/32	SS	AlW	
GA-50900	1:1:2	(1-2):(3-4):(5-6)	2.5	325	0.2	1-5/16	5/8	1-3/4	SS	AlW	
KS-9643 input	1:1:1	(1-2):(3-4):(5-6)	1-3	300	0.2	1-5/16	5/8	1-3/4	SS	AlW	
D-172935 input	1:1:1	(1-2):(3-4):(5-6)	1.5	300	0.9	2-17/32	1-11/16	2-19/32	SS	AlB	
D-175938 input	1:1:1	(1-2):(3-4):(5-6)	1.0	300	0.75	2-17/32	1-11/16	2-19/32	SS	AlB	Replaced by GA-50342
GA-50342	1:1:1	(1-2):(3-4):(5-6)	1.0	300	0.75	2-17/32	1-11/16	2-19/32	SS	AlB	
GA-51964	2.9:1.9:1	(1-2):(3-4):(5-6)	1.0	1200 (1-2) 1500 (3-4) 400 (5-6)	0.8	2-17/32	1-11/16	2-19/32	SS	AlW	
GA-52053	1:1:1	(1-2):(3-4):(5-6)	0.9 - 1.3	425	0.8	2-17/32	1-11/16	2-19/32	SS	AlB	
GA-50416	1:1:1	(1-2):(3-4):(5-6)	0.5 - 1.5	300	0.1	1-7/32	23/32	1	SS	AlC	
KS-9564	1:1	(1-2):(3-4)	0.75	300	0.1	1-1/4	21/32	2	SS	AlW	10 ma dc in (1-2)
GA-50458	3.75:3.75:1	(1-2):(3-4):(5-6)	0.4 - 1.0	300	0.1	1-1/64	d1a	1-27/64	SS	AlW	
GA-51864	1:1:1	(1-2):(3-4):(5-6)	0.3	300	0.2	1-5/16	5/8	1-3/4	SS	AlW	See Table 6.
GA-52025			0.25		2.5	4-1/8	2-5/16	3-11/16	-	ALL	
GA-50205	1:2	(1-2):(3-4)	0.2	300	0.1	1-1/64	d1a	1-27/64	SS	AlW	
GA-50341	1:2	(1-2):(3-4)	0.2	300	0.25	1-17/32	1	1-21/32	SS	AlW	



Designation	Average Values			Sensitivity				Min Par Res Freq KC	Test Volts RMS	Wt. Lbs.	Outside Dia.	Inside Dia.	Core Matl	Structure	Remarks
	Windings	Ind. Henrys	DC Res Ohms	Windings	ma/in	Tube Dia	Anode KV								
SC-1016	(1-2) (3-4)	1.0 1.0	325 325	H (1-2) V (3-4)	22 22	5"	5.5	23 23	500	1.5	3-11/16	1-9/16	Sil	Rect	
D-165620	(1-2) (3-4)	0.125 0.125 0.012	225 225 66	H (1-2)(3-4) Push-Pull V (5-6)	21.5 135	5 5	5.5 5.5	- 140	500	0.5	3	1-9/16	Per	Tor	
D-176699	(1-2) (3-4)	0.94 0.85	465 500	H (1-2) V (3-4)	26 26	5	5.5	- -	500	0.9	4-1/16	2-9/16	Per	Tor	Tropicalized. Off-centering Coil.
D-176839	(1-2)	0.025	71	(1-2)	100	5	5.0	200	2500pk	0.5	3	1-1/2	Air	Sad	Tropicalized. Two slip-rings. Rotating PPI.
D-178652	(1-5) (5-2) (3-5) (5-4)	0.1 0.1 0.1 0.1	70 max. 70 max. 70 max. 70 max.	H (1-5-2) V (3-5-4)	20 max. 20 max.	10	8.5	40 40	2500pk	2.5	4-15/32	1-9/16	Per Pow	Tor	Tropicalized. Electrical PPI.
D-178653	(1-3) (2-4) (6-7)	0.75 1.1 0.025	2050 2630 55	H (1-3)(2-4) Push-Pull V (6-7)	12.5 max. 100 max.	5 5	5.0 5.0	- 120	1000	2.0	3-1/8	1-1/2	Air	Sad	Tropicalized.
KS-9380	(1-2) (2-3) (1-2-3) (4-5)	0.25min 0.25min 1.0 1.9min	510 max. 470 max. 980 max. 1380 max.	H (1-2-3) V (4-5)	28 20	5	5.0	- -	500	1.5	3-11/16	1-9/16	Sil	Rect	
KS-9647	(1-2) (3-4) (5-6) (7-8)	0.185 0.185 0.043 0.043	530 max. 530 max. 264 max. 264 max.	H (1-2)(3-4) V (5-6)(7-8)	33 48	5 5	5.0 5.0	- -	1000	2.0	3-1/8	1-1/2	Air	Sad	
KS-9880	(1-2)	0.10	530 max.	(1-2)	48	5	5.0	120	3000pk	0.3	2-1/8	1-1/2	Air	Sad	Tropicalized. Rotating PPI.
KS-13094	(1-2) (3-4) (5-6) (7-8) (1-2)(3-4) (5-6)(7-8)	0.530 0.780 0.010 0.010 2.300 0.025	1300 1670 31 31	H (1-2)(3-4) V (5-6)(7-8)	14 93	5 5	5.0 5.0	10 150	500	2.1	3-3/8	1-1/2	Air	Sad	Tropicalized.
GA-51936	Same as D-176839 except 3/16 inch longer in axial direction.														
GA-51937	Same as D-176699 except electrostatic shield between (1-2) and (3-4). Direct capacitance = 15 mmf average.														
GA-52207	(1-2)	0.0275	33	(1-2)	67	10	10	-	5000		3-7/8 flange 2-7/16 body	1-9/16 min.	Air	Sad	Rotating PPI.
GA-52208	(1-2) (3-4) (5-6) (7-8)	1.1 1.1 1.1 1.1	400 440 480 530	H (1-2) V (3-4) H (5-6) V (7-8)	11.5 11.5 11.5 11.5	10 10 10 10	10 10 10 10	-	1200	1.5	4-5/16	2-11/16	Per	Tor	Off-centering coil.

Min Par Res Freq - Minimum Parallel Resonant Frequency    Rect - Rectangular    Tor - Toroidal    Sad - Saddle    Sil - Silicon steel  
Per - Permalloy    Pow - Powder



Designation	Impedance Ratio Ohms	Operating Peak Pulse Voltage, kv	Pulse Duration Microsec	Maximum Duty Cycle	Max Fil Amps	Average Bifilar DC Res Ohms	Shld	Wt Lbs	Dimensions-Inches			Mtg	Category	Remarks
									Length	Width	Height			
D-177296	15:800 J1:(3,5-4,6)	49 (4,6)	1.33	0.002	4.0	1.0	-	24	9-1/2	7-1/16	7-9/16	-	A1L	
D-169271	16:507or547or592 (1-2)or(1A-2)or (1-2A):(3,5-4,6)	30 (4,6)	5.0	0.001	2.5	1.34	E	22	6-13/16	6-1/8	7-9/16	-	A1L	Two Monitor Windings
GA-50705	28:5500 (1-2):(1,3-4,6)	4.2 (6,4)	0.375	0.00075	0.5	3.28	-	0.2	1-5/8	1	1-7/16	SS	A1C	Bias Winding (3-5)
D-165964	30:1680 (1-2):(3,5-4,6)	12.3 (4,6)	0.75 to 2.25	0.001	1.0	7.3	E	2.0	3-11/16	1-29/32	3-5/8	-	A1L	
D-178747	35:1200 J1:(3,5-4,6)	36.5 (4,6)	0.25	0.000375	3.0	0.49	-	10	7-5/8	3-5/16	5-11/16	-	A1L	
KS-9565	40:1000 (1-2):(3,5-4,6)	7.5 (4,6)	0.75	0.0015	1.25	1.4	-	1.1	2-17/32	1-21/32	2-13/16	SS	A1L	Synchronizing Winding (7*-8)
KS-13197	50:50 (1-2):(3-4)	3.2 (4)	0.50	0.001	-	-	E	2.0	4	1-13/16	3-3/8	-	A1L	
GA-50899	50:100 (3-4):(1-2)	0.8 (2)	3.0	0.006	-	-	E	0.4	1-3/4	dia	1-15/16	SS	A1B	
GA-51965	50:400 (1-2):(3-4)	9 (3)	1.0	0.002	-	-	-	2.3	3-21/32	2-9/32	3-5/8	SS	A1L	Hard Tube Modulator
D-177350	50:567 J1:(3,5-4,6)	26 (4,6)	1.0	0.0004	3.0	0.94	-	6.2	4-13/16	2-25/32	4-29/32	-	A1L	
D-163537	700:50 (3-4):(1-2)	16 (4)	0.75 to 2.25	0.001	-	-	E	3.0	5-3/4	5	2	-	A3L	NP. Component
KS-9948	700:50 (3-4):(1-2)	3.4 (2)	0.1 to 0.25	0.001	-	-	E	0.9	5-3/4	5	1-5/16	-	A3L	NP. Component
D-164672	50:800or950or1100 (1-2)or(1-2A)or (1-2B):(3,5-4,6)	18 (4,6)	2.25	0.001	3.5	0.8	E	12	5-15/16	5-11/16	5-3/16	SS	A1L	Two Monitor Windings
D-169114	50:800or950or1100 (1-2)or(1-2A)or (1-2B):(3,5-4,6)	18 (4,6)	2.25	0.001	3.5	0.8	E	20	7-19/32	6-13/16	6-1/8	-	A1L	Two Monitor Windings. Capacitance 350 mmf, (C-case)
D-166173	50:900 (1-2):(3,5-4,6)	18 (4,6)	0.75 to 2.25	0.001	1.0	8.0	E	9.0	5-3/4	dia	5-7/32	SS	A1L	NP
D-163247	50:1000 (1-2):(3,5-4,6)	17.5 (4,6)	0.75 to 2.25	0.001	1.5	7.65	E	8.5	5-3/4	dia	5-1/16	-	A1L	NP
D-175693	50:1000 (1-2):(3,5-4,6)	15 (4,6)	0.25	0.0005	1.65	1.5	-	2.4	3-23/32	2-5/16	3-9/16	-	A1L	
GA-51040	50:1000 J1:(3,5-6,7)	15 (6,7)	5.0	0.001	2.1	36	-	4.0	4-1/16	2-11/16	3-17/32	-	A1L	Contains filament transformer. Primary (3-5) 129 volts. Secondary (6-7) 12.6 volts, 2.1 amps. at 380-1600 cps.

## HIGH VOLTAGE PULSE TRANSFORMERS

TABLE 6-2

Designation	Impedance Ratio Ohms	Operating Peak Pulse Voltage, kv	Pulse Duration Microsec	Maximum Duty Cycle	Max Fil Amps	Average Bifilar DC Res Ohms	Shld	Wt Lbs	Dimensions-Inches			Mtg	Cate- gory	Remarks
									Length	Width	Height			
GA-51963	50:1000 (1-2):(3,5-4,6,7)	15 (4,6,7)	0.38 to 4.5	0.001	2.5	5.35	-	4.0	6-1/4	4	3-23/32	SS	ALL	Contains filament transformer. Primary (3-5) 115 volts. Secondary (6-7) 12.6 volts, 2.5 amps at 380-1600 cps.
GA-52138	50:1000 J1:(3,5-6,7)	15 (6,7)	0.38 to 3.25	0.001	2.1	-	-	11	7-27/32 See	6-5/8 drawing	3-23/32	-	ALL	Contains filament transformer. Primary (3-5) 122 volts. Secondary (6-7) 12.6 volts, 2.1 amps. at 380-1600 cps.
KS-9798	50:1000 (1-2):(3,5-4,6)	15 (4,6)	0.25 to 1.0	0.001	3.0	1.62	-	2.0	3-15/16	2-1/16	3-5/32	SS	ALL	Synchronizing Winding (S1-S2)
KS-9949	50:1000 (1-2):(3,5-4,6)	15 (4,6)	0.1 to 1.0	0.001	2.0	2.3	-	2.0	3-5/8	1-13/16	3-11/32	-	ALL	Synchronizing Winding (S1-S2)
GA-50037	50:1150 J1:(3,5-4,6)	15 (4,6)	5.0	0.001	3.0	54	-	4.0	4-1/16	2-11/16	3-17/32	-	ALL	Contains filament transformer. Primary (3-5) 129 volts. Secondary (6-7) 6.3 volts, 3 amps at 380-1600 cps.
D-177295	50:1200 (2-case):(3,5-4,6)	36.5 (4,6)	0.25	0.000375	3.0	0.40	-	9.6	5-5/8	3-5/16	5-7/8	SS	ALL	
GA-50901	50:1200 (2-case):(3,5-4,6)	36.5 (4,6)	0.25 & 0.5	0.001	3.0	0.82	E	9.6	5-5/8	3-5/16	5-7/8	SS	ALL	NP. Replaced by GA-51594
GA-51594	50:1500 (Case-2):(3,5-4,6)	36.5 (4,6)	0.25 & 0.5	0.001	3.15	0.80	E	10.7	5-5/8	3-5/16	5-7/8	SS	ALL	Replaces GA-50901
D-164661 auto	52.5:1100 (1,4-2,5):(1,4-3,6)	20.5 (3,6)	1.0	0.0005	3.5	0.93	-	16.0	6-9/16	6	7-25/32	SS	ALL	Synchronizing Winding (7-8). NP.
GA-52025	62.5:445:1000 (7-case):(1-2): (3,5-4,6)	3.6(7-case) 12(1-2) 14.5(3,5-4,6)	0.25	0.0005	0.6	1.76	E	2.5	4-1/8	2-5/16	3-11/16	-	ALL	Blocking oscillator type
D-163325 auto	125:500 (1,4-2,5):(1,4-3,6)	21 (3,6)	1.0	0.0005	1.5	5.1	-	13.5	6-1/2	6-1/2	6-1/2	-	ALL	NP.
KS-9563 auto	1:16 ratio (1-2):(1-3)	3.5 (3)	-	-	-	-	-	0.6	1-31/32	1-7/16	2-9/32	-	ALL	Spark gap trigger transformer

Designation	Impedance Ratio		Frequency Range, KC	Pulse Duration Microseconds	Operating Volts to Ground	Shld	Wt Lbs	Dimensions - Inches			Mtg	Category	Remarks
	Ohms	Windings						Length	Width	Height			
D-176106	72:18,500	(1-2):(3-4)(5-6)	30 to 1500	1.5	(3-4)(5-6)2.3kv pk	E	0.3	1-7/8	1-1/2	1-7/16	SS	A1B	
GA-50206	75:1000	(1-2):(3-4)	30ke to 8mc	0.1 to 1.0	(3-4) 300 dc	E	0.1	1-1/64	dia	1-27/64	SS	A1W	
GA-51404	75:2700	(1-2):(3-4)(5-6)	20 to 7000	0.4	(1-2) 10v pk	E	0.1	1-1/32	dia	1-7/16	SS	A1W	
KS-13080	100:100	(1-2):(3-4)	5 to 10,000	0.1 to 1.0	(1-2) 1kv pk (3-4) 700 dc	E	0.4	1-3/4	dia	1-15/16	SS	A1B	
D-161310	100:2000	(1-2):(3-4)	50 to 4000	-	(3-4) 350 dc	E	0.25	1-25/32	dia	1-29/32	SS	A1G	
GA-51956	100:2000	(1-2):(3-4)	2 to 3000	0.3 to 3.0	(1-2) 135v dc (3-4) 600v dc	E	0.3	1-25/32	dia	1-29/32	SS	A1G	
KS-9644	150:500	(1-2):(3-4)	10 to 1000	5 - 20	(3-4) 200 pk	-	0.1	1	dia	1-3/8	SS	A1W	Mounting flange 5/16" from top.
D-172707	250:1000	(1-2):(3-4)(5-6)	25 to 2000	1.2	(1-2) 300 dc	-	0.3	1-1/2	1	1-15/16	SS	A1B	
GA-52431	500:2000	(1-2):(3-4)	-	0.25	(1-2) 18v (3-4) 110 dc pk	-	0.01	5/8	1/2	1/2	-	A1C	
D-164527	500:3000	(1-2):(3-4)	10 to 1500	2.0	(3-4) 300 dc	E	0.4	1-3/4	dia	1-15/16	SS	A1B	
GA-51813	4,300:500	(1-2-3):(4-5)	50 to 1000	0.25	(1-2-3) 250v 40ma	E	0.3	1-17/32	1	1-29/32	SS	A1W	
GA-51135	750:3000	(1-2):(3-7-6)	81.947	340 & 620	(1-2) 15 pk	E	1.3	3-7/16	1-3/4	3-15/32	SS	A1G	Phase splitting network on (3-4-5-6) internally
D-172554	2000:1000	(3-4-5):(1-2)	10 to 10,000	0.25 to 1.0	(1 2) 150 dc	E	0.3	1-15/32	15/16	2-9/32	SS	A1W	
GA-52432	1000:2000	(1-2):(3-4)	-	0.25	(1-2) 25 v (3-4) 110 dc pk	-	0.01	5/8	1/2	1/2	-	A1C	
D-166638	2000:2000	(1-2):(3-4)	10 to 2000	2.0	(3-4) 20 pk	E	0.3	1-5/16	1-13/16	2-5/16	SS	A1B	
D-166923	2000:2000	(1-2):(3-4)	10 to 2000	2.0		E	-	1-3/4	dia	1-15/16	SS	A1B	Resembles 664A input electrically.
GA-52433	2000:2000	(1-2):(3-4)	-	0.25	(1-2) 35 v (3-4) 110 dc pk	-	0.01	5/8	1/2	1/2	-	A1C	
KS-9136	3000:9000	(1-2):(3-4)	15 to 500	15	(1-2) 150 dc (3-4) 90 pk	-	0.2	1-3/4	1-5/32	1-21/32	SS	A2B	Do not use for new application.
GA-51283	1:1:1:1 turns	(1 2):(3-4) (5-6):(7-8)	-	0.4	any 250 v dc	E	0.1	1-17/32	1	1-29/32	SS	A1W	
GA-50876	1:1:1 turns	(1-2):(3-4) (5-6)	10 to 2000	0.25	(1-2) 300 dc	E	0.2	1-17/32	1	1-29/32	SS	A1W	
KS-13198	0.1:10 ohms	(case-2):(3-4)	-	1	(3-4) 100 pk	-	0.1	1-5/16	5/8	1-1/2	-	A1W	Do not use for new application.
KS-9135	1:10.2 turns	(1-2):(4-4)	-	20	(1-2) 600 dc (4-4) 5 kv pk	-	0.4	2	1-7/8	2-1/16	-	A3V	Dimensions include terminals and mounting

LOW VOLTAGE PULSE TRANSFORMERS



Spec	Impedance Ratio Ohms	Frequency Range	Sweep Duration Microsec	Rep Rate pps	Operating Volts			Shld	Wt Lbs	Dimensions-Inches			Mtg	Cate- gory	Remarks
					Winding	dc to G	Across			Length	Width	Height			
D-169299 output	4000:50 (3-4):(1-2)	50cps to 125 kc	50 & 350	2000	(3-4)	450	160pk to pk	E	2.0	3-13/32	1-3/4	3-15/32	SS	A1B	
D-169298 input	50:25,000 (1-2):(3-4)(5-6)	50cps to 125 kc	50 & 350	2000	(3-4)(5-6)	300	400pk to pk	E	2.0	3-13/32	1-3/4	3-15/32	SS	A1B	
D-163650 output	1200:71 (3-4):(1-2)	100cps to 300 kc	307	480	(3-4)	300	200pk	E	3.5	4	4	2-1/2	SS	A1B	Non-preferred
D-163648 input	71:6000 (1-2):(3-4)(5-6)	100cps to 300 kc	307	480	(3-4)(5-6)	300	440pk	E	3.5	4	2-17/32	4	SS	A1B	Non-preferred
D-175346 output	2000:75 (3-4):(1-2)	30cps to 1 mc	24 & 445	1320	(3-4)	450	307pk to pk	E	2.0	3-13/32	1-3/4	3-15/32	SS	A1B	For new application use D-178750
D-178750 output	2000:75 (3-4):(1-2)	17cps to 1 mc	24 & 650	1320	(3-4)	450	307pk to pk	E	2.0	3-13/32	1-3/4	3-15/32	SS	A1B	Reduces demand for D-175346
GA-51824 line	100:200+200 (1-2):(3-4)+(5-6)	10cps to 500 kc	13 to 2500	-	all	0	<10	E	1.0	1-13/16	1-7/16	2-31/32	SS	A1W	Maximum duty cycle 0.9
GA-52006 line	100:200+200 (1-2):(3-4)+(5-6)	10cps to 500 kc	13 to 2500	-	all	0	<10	E	1.0	2-15/16	1-1/2	1-15/16	SS	A1W	Maximum duty cycle 0.9
D-175345 input	300:35,000 (1-2):(3-4)(5-6)	30cps to 200 kc	24 & 445	1320	(3-4)(5-6)	300	644pk to pk	E	2.0	3-13/32	1-3/4	3-15/32	SS	A1B	For new application use D-178749
D-178749 input	300:35,000 (1-2):(3-4)(5-6)	17cps to 200 kc	24 & 650	1320	(3-4)(5-6)	300	644pk to pk	E	2.0	3-13/32	1-3/4	3-15/32	SS	A1B	Reduces demand for D-175345



Designation	Impedance Ratio		Freq. Range	Pulse Duration Microsec	Rep. Rate Per Sec.	Working Voltage			Shld	Wt. Lbs.	Dimensions - Inches			Mtg	Category	Remarks
	Ohms	Windings				Wdg.	To Grd	Across			Length	Width	Height			
D-175584	75:18.75	J1:J2,J3, J4,J5	10cps to 10 mc	0.1 to 10,000	30 Lines 2000	All J1	0	75 pk	-	5.5	6-3/4	5-17/32	2-7/32	-	A1B	Auto transformer, coaxial jacks
GA-50207	37.5:1000	(1-2):(3,5-4)	10cps to 10 mc	0.1 to 10,000	30 1320	(3,5-4) (1-2)	600 dc	45 pk	E	3.1	3-19/32	2-21/32	3-3/4	SS	A1L	Output type. 1500w across (3,5-4) internally.
D-169322	50:2000	(1-2):(3,5-4)	800cps to 8mc	0.1 to 300	30 2000	(3,5-4) (1-2)	350 dc	50 pk	E	1.3	2-19/32	2-19/32	3-1/2	SS	A1G	Output type. 2000w across (3,5-4) internally.
D-169323	50:2000	(1-2):(3-T-4)	800cps to 10mc	0.1 to 300	30 2000	All (1-2)	0	50 pk	E	1.3	2-19/32	2-19/32	3-1/2	SS	A1G	Input type. Intern- ally, (3-T) 800w, (T-4) 1200w.
D-163651	600:71	(3-4):(1-2)	250cps to 1.2 mc	1 to 60	480pps	(3-4)	300 dc	90 pk	E	3.5	4	2-17/32	4	SS	A1B	Output type. Non- preferred.
D-163649	71:3000	(1-2); (3-4)(5-6)	250cps to 1.2 mc	1 to 60	480pps	(3-4) (5-6)	300 dc	200 pk	E	3.5	4	2-17/32	4	SS	A1B	Input type. Non- preferred.
GA-51235	75:300	(1,3-2,4); (5-6)(7-8)	300cps to 2 mc	-	600pps	any	300 dc	10 pk	E	0.4	1-21/32	1-7/32	2-1/8	SS	A1W	Line type.
D-175581	1000:75	(1-2):(3,5-4)	10cps to 10 mc	0.1 to 10,000	30 2000	(3,5-4) (1-2)	600 dc	75 pk	E	3.1	3-21/32	2-7/8	3-3/4	SS	A1L	Output type. 2000w on (1-2) and (3, 5-4) internally.
D-171144	75:2000	(1-2):(3,5-4)	250cps to 8mc	0.1 to 1000	30 2000	(3,5-4) (1-2)	350 dc	75 pk	E	1.5	2-19/32	2-19/32	3-1/2	SS	A1G	Output type. 2000w on (3,5-4) intern- ally.
D-171145	75:2000	(1-2):(3-T-4)	250cps to 8mc	0.1 to 1000	30 2000	All (1-2)	0	75 pk	E	1.5	2-19/32	2-19/32	3-1/2	SS	A1G	Input type. Intern- ally, (3-T) 800w, (T-4) 1200w.
D-175582	75:3600	(1-2); (3-4)(5-6)	10cps to 10 mc	0.1 to 10,000	30 2000	(1-2) (3-4) (5-6)	0 1900 dc 2300 dc	75 pk	E	3.1	3-21/32	2-21/32	3-3/4	SS	A1L	Input type. Intern- ally, 1800w across (3-4) and (5-6).

\* Video pulse pattern







Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
KS-13198	7	0.1:10	-		D-166459	1-6	25:100,000	500 to 5000 cps	
D-163081	1-2	17:4+4 17:5.33+5.33	500 to 5000 cps		GA-51312	2-4	600:26	12 to 68 kc	
D-164392	1-4	4500:4.8 or 0.8	500 to 3000 cps		GA-50705	6	28:5500	-	
GA-50770	2-2	10,000:100:6	1.0 kc	Oscillator coil.	KS-8696	3-1	30 or 250 or 4000: 1000	200 to 3000 cps	
D-164872	1-4	10,420 or 4065:6.2	500 to 5000 cps		D-165964	6	30:1680	-	
D-166264	1-6	20,900 or 8075:6.9	500 to 5000 cps		KS-8715	3-1	30:8330	300 to 3000 cps	
D-164873	1-4	4950 or 1920:7.5	500 to 5000 cps		KS-9390	3-2	9000:30	60 cps	
D-164874	1-5	2955 or 1153:7.38	500 to 5000 cps		KS-8858	3-1	10,000:500 or 125 or 30	50 to 60 cps	
D-164875	1-5	700 or 272:7.75	500 to 5000 cps		KS-8698	3-1	20,000:4000 or 250 or 30	200 to 3000 cps	
KS-8826	3-1	10,000:600 or 8	200 to 3000 cps		KS-9894	3-4	30 or 250:165,000	30 to 10,000 cps	Electrically similar to 285F Input.
KS-9496	3-2	9000:9	100 to 10,000 cps		D-162510	1-2	250 or 30:165,000	30 to 10,000 cps	Electrically similar to 285F Input.
GA-50330	2-1	25,000:12	20 to 120 kc	Tuned.	KS-9888	3-4	30:300,000	300 to 5000 cps	
D-177296	6	15:800	-		GA-50329	2-1	135:33.75	8 to 120 kc	
D-169271	6	16:507 or 547 or 592	-		D-178747	6	35:1200	-	
KS-9374	3-2	17:68,000	60 cps		KS-9012	3-1	2000:35	210 cps	
KS-9999	3-6	4500:18	300 to 6000 cps		GA-51321	2-5	25,000:35	8-20 kc	
D-175584	9	75:18.75	10 cps to 10 mc	Jacks.	GA-50207	9	37.5:1000	10 cps to 10 mc	
GA-50833	2-2	2000:20	600 cps to 45 kc		KS-9565	6	40:1000	-	
KS-8967	3-1	6000:20	20 to 100 cps		D-162457	1-2	8000:40	300 to 3500 cps	
KS-13191	3-6	10,000:20	60 cps	Tuned	KS-9733	3-3	40:10,000	15 to 60 kc	
KS-9938	3-5	25+25:25,000	50 to 60 kc		KS-9895	3-4	21,000:600 or 295 or 45	200 to 3000 cps	Similar to 536A Output.

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
KS-9450	3-2	48:10,000	50 to 9000 cps		KS-8615	3-1	15,000:50	50 to 350 cps	
KS-13197	6	50:50	-		D-166165	1-6	50:20,000	300 to 2500 cps	
GA-50899	6	50:100	-		D-169298	8	50:25,000	50 cps to 125 kc	
GA-51965	6	50:400	-		GA-50321	2-1	50:50,000	500 to 1500 cps	
D-177350	6	50:567	-		KS-9952	3-5	50:60,000	50 to 60 kc	
GA-51207	2-4	570:50	50 to 70 mc		KS-9897	3-4	70,000:500 or 50	50 to 7000 cps	Resembles 178A Output.
KS-9948	6	700:50	-		GA-52453	2-7	70,000:500 or 50	50 to 7000 cps	
D-163537	6	700:50	-		D-163620	1-3	50:100,000	0.5 to 10 kc	
D-164672	6	50:800 or 950 or 1100	-		D-164661	6	52.5:1100	-	
D-169114	6	50:800 or 950 or 1100	-		GA-50762	2-2	135:60	0.3 to 20 kc	
D-166173	6	50:900	-		D-168602	1-8	600:600 or 280 or 60	Voice	
D-163247	6	50:1000	-		D-166839	1-7	600:600 or 280 or 60	Voice	
D-175693	6	50:1000	-		GA-50771	2-2	600:240 or 60	300 to 3500 cps	
GA-51040	6	50:1000	-		GA-52025	4,6	62.5:445:1000		Blocking oscillator.
GA-51963	6	50:1000	-		D-163678	1-4	70:700 or 250	4 to 20 mc	Antenna coupling coil.
GA-52138	6	50:1000	-		D-163679	1-4	70:700 or 250	4 to 20 mc	Coil for above
KS-9798	6	50:1000	-		GA-51242	2-4	70:108,000	130 to 290 kc	
KS-9949	6	50:1000	-		D-163651	9	600:71	250 cps to 1.2 mc	
GA-50037	6	50:1150	-		D-163650	8	1200:71	100 cps to 300 kc	
D-177295	6	50:1200	-		D-163649	9	71:3000	250 cps to 1.2 mc	
GA-51594	6	50:1500	-	Replaces entirely GA-50901					
D-169322	9	50:2000	800 cps to 8 mc						
D-169323	9	50:2000	800 cps to 8 mc						
D-169299	8	4000:50	50 cps to 125 kc						
KS-9536	3-3	50:4050	250 to 3000 cps						

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	
D-163648	8	71:6000	100 cps to 300 kc	Two units in one case.	KS-9918	3-4	82:60,000	300 to 3500 cps		
D-161135	1-1	8000:72	1 to 800 kc		KS-9512	3-2	5000:90	42 to 52 cps		
D-176106	7	72:18,500	30 to 1500 kc		KS-13080	7	100:100	5 kc to 10 mc		
KS-9937	3-5	50,000:72	64 kc		GA-51824	8	100:200+200	10 cps to 500 kc		
GA-51392	2-5	75:300	56 to 64 mc		GA-52006	8	100:200+200	10 cps to 500 kc		
D-162730	1-2	300:75	100 to 3000 kc		D-161310	7	100:2000	50 to 4000 kc		
GA-51235	9	75:300	300 cps to 2 mc		GA-51956	7	100:2000	2 to 3000 kc		
D-175581	9	1000:75	10 cps to 10 mc		D-163604	1-3	3470:600 or 100	250 to 3000 cps		
GA-50206	7	75:1000	30 kc to 8 mc		KS-8613	3-1	30,000:100	50 to 350 cps		
D-171144	9	75:2000	250 cps to 8 mc		D-170116	1-8	100 or 600 or 2200: 125,000	17 to 47 kc		Tuned.
D-171145	9	75:2000	250 cps to 8 mc		D-159747	1-1	100:134,000	400 to 3000 cps		
D-178750	8	2000:75	17 cps to 1 mc		D-167248	1-7	100:140,000	500 to 3000 cps		
GA-51404	7	75:2700	20 to 7000 kc		KS-9365	3-2	100:160,000	300 to 3000 cps		
D-175582	9	75:3600	10 cps to 10 mc		KS-13032	3-6	1,000,000:100	10 kc		
D-171732	1-9	80:80	10 to 70 kc		D-165835	1-6	4000:120+600	5 to 30 kc		Electrically equivalent to 177B Output.
D-163533	1-3	80:400	20 kc to 5 mc		GA-51243	2-4	120+480:31,600	0.3 to 100 kc		
D-163115	1-3	30,000:80	150 to 180 kc		D-171125	1-9	125:125	35 to 150 kc		Electrically similar to 146D Repeat.
D-163116	1-3	80:100,000	21 to 27 kc		D-163325	6	125:500	-		Electrically similar to 146H Repeat.
D-169206	1-8	80:100,000	20 to 28 kc		D-163381	1-3	125:600	36 to 84 kc		
GA-52196	2-7	80:128,000	380 to 420 cps		KS-8858	3-1	10,000:500 or 125 or 30	50 to 60 cps		

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
D-164881	1-5	150,000:50,000 or 132	300 to 3000 cps		KS-9644	7	150:500	10 to 1000 kc	
D-166794	1-6	135:135	15 cps to 150 kc		GA-50834	2-2	150:600	350 cps to 35 kc	
D-176855	1-10	135:135	5 to 8 mc		D-168167	1-8	150:600	10 to 30 kc	
GA-51117	2-4	280:135	0.3 to 1000 kc		GA-51815	2-5	150:237:6230	300 to 3000 cps	
GA-51119	2-4	135:415	1 to 1000 kc		D-178655	1-11	8000:1200 or 165	3000 to 5000 cps	
D-166795	1-6	600:135	15 cps to 150 kc		GA-50768	2-2	6000:185+600	0.1 to 20 kc	
GA-51071	2-3	135:600	100 cps to 150 kc		GA-51244	2-4	185+600:16,000	1 to 300 kc	
D-165995	1-6	135:600	200 cps to 150 kc	Electrically similar to 146A Repeat.	D-168603	1-8	200:600	Voice	Electrically similar to 124B Repeat.
D-166464	1-6	135:600	200 cps to 150 kc	Electrically similar to 146A Repeat. Hermetically sealed.	D-164922	1-5	200:600	Voice	Electrically similar to 124B Repeat.
GA-51265	2-4	135:600	0.2 to 200 kc		D-162199	1-2	6000:600+200	200 cps to 12 kc	
GA-50903	2-3	600 or 135 or 600	250 cps to 68 kc		D-164579	1-4	6000:600+200	200 cps to 12 kc	Electrically similar to D-162199 Output.
GA-51240	2-4	135:1800	1 to 150 kc		KS-8695	3-1	200:12,500	200 to 3000 cps	
D-166822	1-7	3000:135	2 to 80 kc		KS-9332	3-2	200:25,000	10 to 500 cps	
GA-50904	2-3	600 or 135:16,000 +600	250 cps to 68 kc		D-166863	1-7	200:220,000	60 kc	Flexible leads.
D-172258	1-9	20,000:135	200 cps to 10 kc		GA-51116	2-3	240:240	1 to 500 kc	
GA-51121	2-4	135+135:20,000	1 to 150 kc		GA-50771	2-2	600:240 or 60	300 to 3500 cps	
D-178890	1-11	250:150	20 to 1500 kc		GA-50325	2-1	2500:240	300 to 1700 cps	
D-168166	1-8	150:300	10 to 30 kc		KS-9934	3-5	600:250	60 to 64 kc	Resembles 146F Repeat.
					GA-50326	2-1	600 or 250:800+800	300 to 2800 cps	

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
D-172707	7	250:1000	25 to 2000 kc	Tuned single frequency.	KS-9928	3-4	30,000:300	Voice	
KS-8696	3-1	30 or 250 or 4000:1000	200 to 3000 cps		D-165569	1-5	300:30,000	60 to 5000 cps	
GA-51441	2-5	7000:250	85 kc		D-175345	8	300:35,000	30 cps to 200 kc	
D-163144	1-3	8000:250	Voice		D-178749	8	300:35,000	17 cps to 200 kc	
D-176752	1-10	15,000:250	380 to 420 cps		KS-9523	3-3	300+300:100,000	10 to 30 kc	
KS-8698	3-1	20,000:4000 or 250 or 30	200 to 3000 cps		GA-50331	2-1	120,000:300:300	4 kc	Tuned externally.
KS-13029	3-6	20,000:4000 or 250	300 to 3000 cps		GA-50332	2-1	120,000:300:300	8,12,16 kc	Tuned externally.
KS-9894	3-4	30 or 250:165,000	30 to 10,000 cps		GA-50333	2-1	120,000:300:300	32 or 64 kc	Tuned externally.
D-162510	1-2	250 or 30:165,000	30 to 10,000 cps		D-162198	1-2	300:142,000	200 to 12,000 cps	Electrically similar to 633E Repeat.
GA-51115	2-3	280:600	0.2 to 200 kc		D-162065	1-1	300:357,000	250 to 3000 cps	Electrically similar to 626A Input.
D-166839	1-7	600:600 or 280 or 60	Voice		D-171691	1-9	300:357,000	250 to 3000 cps	Electrically similar to 626A Input.
D-168602	1-8	600:600 or 280 or 60	Voice	D-159627	1-1	4500:360	500 to 10,000 cps		
KS-13093	3-6	21,000:600 or 295	200 to 3000 cps	GA-51118	2-4	365:600	0.2 to 50 kc		
KS-9895	3-4	21,000:600 or 295 or 45	200 to 3000 cps	D-163613	1-3	365:6600	300 to 3500 cps		
D-162066	1-1	21,000:600 or 296	Voice	GA-51120	2-4	365:13,000	1 to 100 kc		
D-163905	1-4	300:300	10 to 30 kc	D-163612	1-3	18,000:10,400:394	300 to 3500 cps		
GA-52039	2-6	500:300	163.88 kc	Resembles 94AA Repeat.	KS-9521	3-3	3700:400	21 to 26 kc	
D-162194	1-2	600:300	Voice		GA-50323	2-1	40,000:800:400	300 to 2800 cps	
GA-51814	2-5	300:9900	300 to 3000 cps		GA-50765	2-2	600:420	300 to 3500 cps	
KS-3728	3-1	15,000:4000 or 300	250 to 3000 cps		D-162256	1-2	420:2140	200 to 12,000 cps	Electrically similar to 170A Repeat.
GA-50328	2-1	300:20,000	4 to 64 kc						

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
D-161824	1-1	425:600	3 to 12 kc	Tuned internally. Two units in one case.	GA-51723	2-5	600:600	Voice	Electrically similar to 215A Repeat.
GA-52193	2-7	5000:450 5000:450	400 cps		GA-50940	2-3	600:600	200 to 6000 cps	
KS-9649	3-3	450:72,500	400 to 2400 cps		D-166658	1-6	600:600	30 to 10,000 cps	
GA-52119	2-6	500:500:500:500:500	26 to 5000 cps		D-164859	1-4	600:600	30 to 10,000 cps	
D-166939	1-7	500:600+600	300 to 3000 cps		KS-9923	3-4	600:600	30 to 10,000 cps	
GA-52431	7	500:2000	-	Operates tuned.	D-170018	1-8	600:600	4 to 31 kc	Electrically similar to 146U Repeat.
D-162542	1-2	500:3000	400 to 4000 cps		D-165611	1-5	600:600	5 to 30 kc	Electrically similar to 123A Repeat.
D-164527	7	500:3000	10 to 1500 kc		GA-50903	2-3	600 or 135:600	250 cps to 68 kc	
KS-9951	3-5	3000:1500 or 1000 or 500	600 to 1000 cps		D-166839	1-7	600:600 or 280 or 60	Voice	
GA-51813	7	4300:500	50 to 1000 kc		D-168602	1-8	600:600 or 280 or 60	Voice	
KS-8858	3-1	10,000:500 or 125 or 30	50 to 60 cps	Resembles 630A Input.	D-162195	1-2	600:600+600	Voice	Electrically similar to 151B Repeat.
D-159749	1-1	15,000:500	250 to 3000 cps		D-172521	1-9	600:600+600	200 to 3500 cps	Electrically similar to 146T Repeat.
KS-9887	3-4	70,000:500 or 50	50 to 7000 cps		GA-50766	2-2	600:700+700	250 to 3500 cps	
GA-52453	2-7	70,000:500 or 50	50 to 7000 cps		D-166928	1-7	800:600	40 to 10,000 cps	
D-166356	1-6	100,000:500	500 to 5000 cps		GA-50326	2-1	600 or 250:800+800	300 to 2800 cps	
GA-50836	2-2	500:200,000	200 to 8000 cps	Resembles 630A Input.	D-167647	1-7	600:1200	4 to 10 kc	Electrically similar to 150B Repeat.
D-166519	1-6	500:250,000	150 to 10,000 cps		D-167648	1-7	1600:600+600	250 to 300 cps	Electrically similar to 151A Repeat.
GA-50769	2-2	550:2400	35 cps to 20 kc		GA-50760	2-2	2000:600	0.3 to 20 kc	
D-176845	1-10	600:600	10 cps to 150 kc		D-167646	1-7	600:2000	4 to 10 kc	Electrically similar to 150A Repeat.
GA-51531	2-5	600:600	400 cps		D-162037	1-1	600:2060	Voice	Electrically similar to 173B Repeat.

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
GA-50772	2-2	600:2400	0.3 to 20 kc		D-162066	1-1	21,000:600 or 296	Voice	
GA-52313	2-7	600:3200	300 to 3000 cps		GA-50992	2-3	23,000:600	300 to 3500 cps	
D-163604	1-3	3470:600 or 100	250 to 3000cps	Electrically similar to 509A Output.	D-162484	1-2	600:25,000	255 to 3145 cps	Electrically similar to 628A Input.
D-165835	1-6	4000:120+600	5 to 30 kc	Electrically similar to 177B Output.	D-166463	1-6	600:25,000	35 to 10,000 cps	Electrically similar to 285E Input.
KS-9467	3-2	4150:600	800 cps		GA-51051	2-3	25,000:600	30 cps to 10 kc	
KS-9958	3-5	4500:600	35 to 15,000 cps	Electrically similar to 178D Output.	GA-51122	2-4	600:25,200+4200	0.2 to 20 kc	
D-161897	1-1	4500:600	35 to 15,000 cps	Electrically similar to 178D Output.	D-166807	1-6	600+600:45,000	200 to 3000 cps	
D-163354	1-3	4500:600	35 to 15,000 cps	Electrically similar to 178D Output.	D-172750	1-9	600+600:45,000	200 to 3000 cps	
GA-50835	2-2	8000:600	600 cps to 80 kc		KS-9899	3-4	600:60,000	500 cps	
KS-9375	3-2	9600:600	60 cps		D-165571	1-5	60,000:600	250 to 2800 cps	Electrically similar to 186A Output.
KS-8826	3-1	10,000:600 or 8	200 to 3000 cps		KS-9551	3-3	60,000:600	88 to 108 kc	
D-166833	1-7	600:600 or 12,000	200 to 3000 cps		D-165836	1-6	80,000:600	4 to 16 kc	Electrically similar to 181C Output.
GA-50764	2-2	15,000:600	300 to 3500 cps		D-165834	1-6	80,000:600	16 to 31 kc tsf	Electrically similar to 151E Output.
GA-50904	2-3	600 or 135:16,000+1600	250 cps to 68 kc		KS-8827	3-1	600:84,000	200 to 3000 cps	
D-165572	1-5	20,000:600	5 to 30 kc	Electrically similar to 163A Output.	D-162470	1-2	600:100,000	255 to 3145 cps	Electrically similar to 174A Repeat.
KS-9936	3-5	20,000:600	60 to 64 kc	Electrically similar to 151B Output.	D-163218	1-3	600:100,000	425 to 3145 cps	Electrically similar to 174A Repeat but silicon steel core.
D-167645	1-7	21,000:600	4 to 10 kc	Electrically similar to 163C Output.	D-170116	1-8	100 or 600 or 2200:105,000	17 to 47 kc	
KS-13093	3-6	21,000:600 or 295	200 to 3000 cps		D-164685	1-4	600:120,000	100 to 5000 cps	Electrically similar to 282B Input but no shields.
KS-9895	3-4	21,000:600 or 295 or 45	200 to 3000 cps	Similar to 536A Output.	D-165570	1-5	600:150,000	250 to 2800 cps	Electrically similar to 603A Input.

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
D-167643	1-7	600:450,000	4 to 10 kc	Resembles 600A Input.	D-163118	1-3	34,000:1000	10 to 30 kc	
D-165830	1-5	400+600:450,000	5 to 30 kc	Electrically similar to 605A Input.	D-170470	1-8	45,000:1000	200 to 3000 cps	
D-167048	1-7	600:500,000	45 kc		GA-51966	2-6	1000:50,000	1 to 2000 cps	
GA-50991	2-3	600:750,000	300 to 3500 cps		GA-52125	2-6	1000:50,000	5 to 300 cps	
D-167120	1-7	600:1,500,000	300 to 4500 cps		KS-9901	3-4	1200:1200	150 to 3000 cps	
KS-9946	3-5	5000:650	35 to 5000 cps		D-178655	1-11	8000:1200 or 165	3000 to 5000 cps	
GA-51135	7	750:3000	81.947 kc	4-phase output.	KS-9998	3-6	9600:1200	55 to 65 cps	Operates tuned to 60 cps.
D-178408	1-10	16,000:1440 or 750	400 cps	Tuned externally.	GA-50761	2-2	2000:1275	0.3 to 20 kc	
GA-50324	2-1	800:100,000	300 to 2800 cps		GA-52145	2-6	4000:4000:1400	300 to 500 cps	
D-168547	1-8	910:4700	200 to 3000 cps		D-178408	1-10	16,000:1440 or 750	400 cps	
D-172554	7	2000:1000	10 to 10,000 kc		KS-9951	3-5	3000:1500 or 1000 or 500	600 to 1000 cps	
GA-52432	7	1000:2000	-		D-167641	1-7	1600:500,000	250 to 3000 cps	Resembles 287B Input.
KS-9951	3-5	3000:1500 or 1000 or 500	600 to 1000 cps		GA-52433	7	2000:2000	-	
KS-9939	3-5	3500:1000	50 to 60 kc		D-166638	7	2000:2000	10 to 2000 kc	
KS-8696	3-1	30 or 250 or 4000:1000	200 to 3000 cps		D-166923	7	2000:2000	10 to 2000 kc	Electrically similar to 664A Input.
GA-50472	2-2	5000:1000	4.0 kc		GA-51156	2-4	35,000:13,000 or 2000	350 cps	
KS-9953	3-5	5450:1000	300 to 5000 cps		D-171731	1-9	2000:40,000	50 to 60 kc	
KS-9945	3-5	12,000:1000	60 to 10,000 cps	Similar to the 169A Output.	KS-9126	3-1	15,000:2110	130 cps	
D-167782	1-7	15,000:1000	10 to 30 kc		D-170116	1-8	100 or 600 or 2200:125,000	17 to 47 kc	
KS-8697	3-1	20,000:4000 or 1000	200 to 3000 cps		D-178471	1-10	11,700:3040:2270	300 to 4000 cps	

Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks	Spec	Table	Impedance Ratio, Ohms	Frequency Range	Remarks
GA-50767	2-2	2400:120,000	0.1 to 20 kc		D-161713	1-1	10,000:10,000	400 to 2200 cps	
KS-9835	3-4	100,000:2500	380 to 500 cps		KS-13707	3-6	10,000:22,500	100 to 3500 cps	
D-167247	1-7	12,500:200,000 or 3125	500 to 3000 cps		GA-52041	2-6	10,000:40,000	60 cps	
KS-9954	3-5	4000:4000	400 cps		GA-50837	2-2	10,000:50,000	1700 cps	
KS-9863	3-4	5000:4000	350 to 450 cps		KS-9348	3-2	12,000:120,000	240 to 1360	
KS-13708	3-6	9000:4000	100 to 3500 cps		D-167247	1-7	12,500:200,000 or 3125	500 to 3000 cps	
KS-8728	3-1	15,000:4000 or 300	250 to 3000 cps		GA-51156	2-4	35,000:13,000 or 2000	350 cps	
KS-9962	3-5	20,000:4000	400 to 3000 cps		D-162512	1-2	15,000:80,000	50 to 10,000 cps	Electrically similar to 285K Input.
KS-8698	3-1	20,000:4000 or 250 or 30	200 to 3000 cps		KS-8617	3-1	100,000:15,000	200 cps	
KS-13029	3-6	20,000:4000 or 250	300 to 3000 cps		D-171088	1-8	16,000:96,000	400 cps	
KS-8697	3-1	20,000:4000 or 1000	200 to 3000 cps		D-170621	1-8	17,000:100,000	300 to 5000 cps	
D-170318	1-8	64,000:4000	30 to 60 kc		D-162511	1-2	18,000:100,000	35 to 10,000 cps	Electrically similar to 285J Input.
KS-8616	3-1	4000:250,000	50 to 350 cps		GA-50434	2-1	30,000:20,000	1.0, 1.6 & 68 kc	
KS-9518	3-2	10,000:4100	300 to 3000 cps		GA-51320	2-5	20,000:80,000	50 to 60 cps	
D-159748	1-1	4500:9000	400 to 3000 cps		D-166071	1-6	20,000:80,000	200 to 3000 cps	Similar to 646B Input.
GA-51219	2-4	5000:20,000	3 to 20 kc		D-166166	1-6	20,000:500,000	300 to 2500 cps	
D-159821	1-1	6000:150,000	500 to 3000 cps	Resembles 285B Input.	KS-9900	3-4	2,000,000:20,000	600 to 3000 cps	
D-165831	1-5	8000:8000	1 to 150 kc	Electrically similar to 605B Input.	KS-9862	3-4	50,000:25,000	380 to 420 cps	
D-157366	1-1	8000:106,500	100 to 5000 cps		KS-9935	3-5	25,000:175,000	64 kc	Similar to 619A Input.
					GA-51241	2-4	54,000:27,000	1 to 120 kc	



Spec	Table	Turns Ratio	Frequency Range	Remarks	Spec	Table	Turns Ratio	Frequency Range	Remarks	
KS-8614	3-1	1:1	50 to 350 cps	Electrically similar to 627A Input.	GA-51864	4	1:1:1	-		
D-162483	1-2	1:1	Voice		GA-51926	4	1:1:1	-		
D-163142	1-3	1:1	Voice		GA-52053	4	1:1:1	-		
D-162200	1-2	1:1	200 cps to 12 kc		KS-9643	4	1:1:1	-		
KS-13023	3-6	1:1	380 to 420 cps		KS-13114	4	1:1:1	-		
D-162038	1-1	1:1	250 to 3000 cps	Electrically similar to 175A Repeat.	KS-9921	3-4	1:0.98:1.3	Voice	Induction coil.	
D-165829	1-5	1:1	5 to 30 kc	Electrically similar to 604A Input.	GA-50900	4	1:1:2	-		
KS-9564	4	1:1	-	tsf.	KS-9800	3-4	2:1.1:1	380 to 520 cps		
GA-51343	2-5	1:1	58 to 62 mc		GA-51912	4	2:2:1	-		
GA-50341	4	1:2	-		GA-51913	4	2:2:1	-		
GA-50205	4	1:2	-	Used in 2 coil hybrid.	GA-51964	4	2.9:1.9:1	-		
GA-50896	2-3	2.5:1	350 to 450 cps		KS-9562	4	1:2.9:2.9	-		
GA-51986	2-6	4.62:1	Voice		GA-50458	4	3.75:3.75:1	-		
KS-9135	7	1:10.2	-		GA-50937	2-3	4.08:1.25:1	Voice		
GA-52175	2-6	25:1	900 cps		GA-51469	2-5	5:5:1	120 to 880 cps		
GA-52176	2-7	43.8:1	495 to 615 cps		D-165832	1-5	1:6:1	6 to 13 kc		tsf. Electrically similar to 606A Input.
GA-51940	2-6	1780:8	64 to 96 kc		D-165833	1-5	1:6:1	17.5 to 30 kc		tsf. Electrically similar to 607A Input.
GA-52411	2-7	1:2000	1.0 to 32 kc		D-176231	1-10	10:7.1:1	300 to 3000 cps		
GA-50876	7	1:1:1	10 to 2000 mc		KS-9461	3-2	20:1:1	150 to 250 cps		
D-172935	4	1:1:1	-		GA-50897	2-3	28:20:1	120 to 600 cps		
GA-50342	4	1:1:1	-	Two units on one base.	GA-51208	2-4	28:20:1	120 to 600 cps		
GA-50416	4	1:1:1	-		GA-51578	2-5	29.4:4.2:1	1600 cps	tsf.	
					GA-51396	2-5	36:3:1	65 to 99 kc	tsf.	



Spec	Table	Impedance Ratio	Frequency Range	Remarks	Spec	Table	Impedance Ratio	Frequency Range	Remarks
D-176453	1-10	1.67:1	300 to 4000 cps		GA-51020	2-3	90:20.25:1	1 kc	
KS-13058	3-6	1.69:1	380 to 550 cps		GA-51021	2-3	190:20.25:1	1.6 kc	
KS-13161	3-6	2:1	350 cps						
KS-9864	3-4	1:2	400 cps						
GA-50712	2-2	2.5:1	120 to 600 cps						
D-172724	1-9	1:4.55	20 to 30 kc						
KS-13162	3-6	5.45:1	60 cps						
KS-9929	3-5	6.25:1	400 cps						
KS-9629	3-3	1:15.2	0.1 to 50 kc						
D-172725	1-9	12:1	20 to 30 kc						
KS-9563	6	1:16	-						
D-172519	1-9	43.5:1	Voice	Electrically similar to 189D Repeat.					
D-172726	1-9	49:1	20 to 30 kc						
KS-13028	3-6	64:1	100 or 400 cps						
D-162116	1-2	64:1	6 to 12 kc						
D-164711	1-4	75:1	2550 cps	Auto.					
KS-9734	3-3	100:1	0.2 to 10 kc						
D-175913	1-10	100:1	300 to 3000 cps						
KS-9961	3-5	1:100	320 to 450 cps						
KS-9735	3-3	1:1800	0.2 to 10 kc						
KS-9986	3-6	20:4:1	110 to 125 kc						

Spec	Table	Voltage Ratio	Frequency Range	Remarks	Spec	Table	No Ratio	Frequency Range	Remarks
KS-8699	3-1	1:130:100	720 cps		GA-51089	2-3	See specification	Voice	Induction coil.
KS-9364	3-2	10.8:0.50:54:27	240 cps		D-176039	1-10	-	1.625 kc	Oscillator coil.
					D-176038	1-10	-	4.03 kc	Oscillator coil.
					D-167642	1-7	-	7 to 11 kc	Oscillator coil. Electrically similar to 299A Input.
					KS-9205	3-2	-	8 kc	Oscillator coil.
					KS-9635	3-3	-	8.060 kc	Oscillator coil.
					KS-9634	3-3	-	16.25 kc	Oscillator coil.
					D-99932	1-1	-	70 to 100 kc	Oscillator coil.
					D-170117	1-8	-	77 to 106 kc	Oscillator coil.
					KS-9152	3-2	-	80 kc	Oscillator coil.