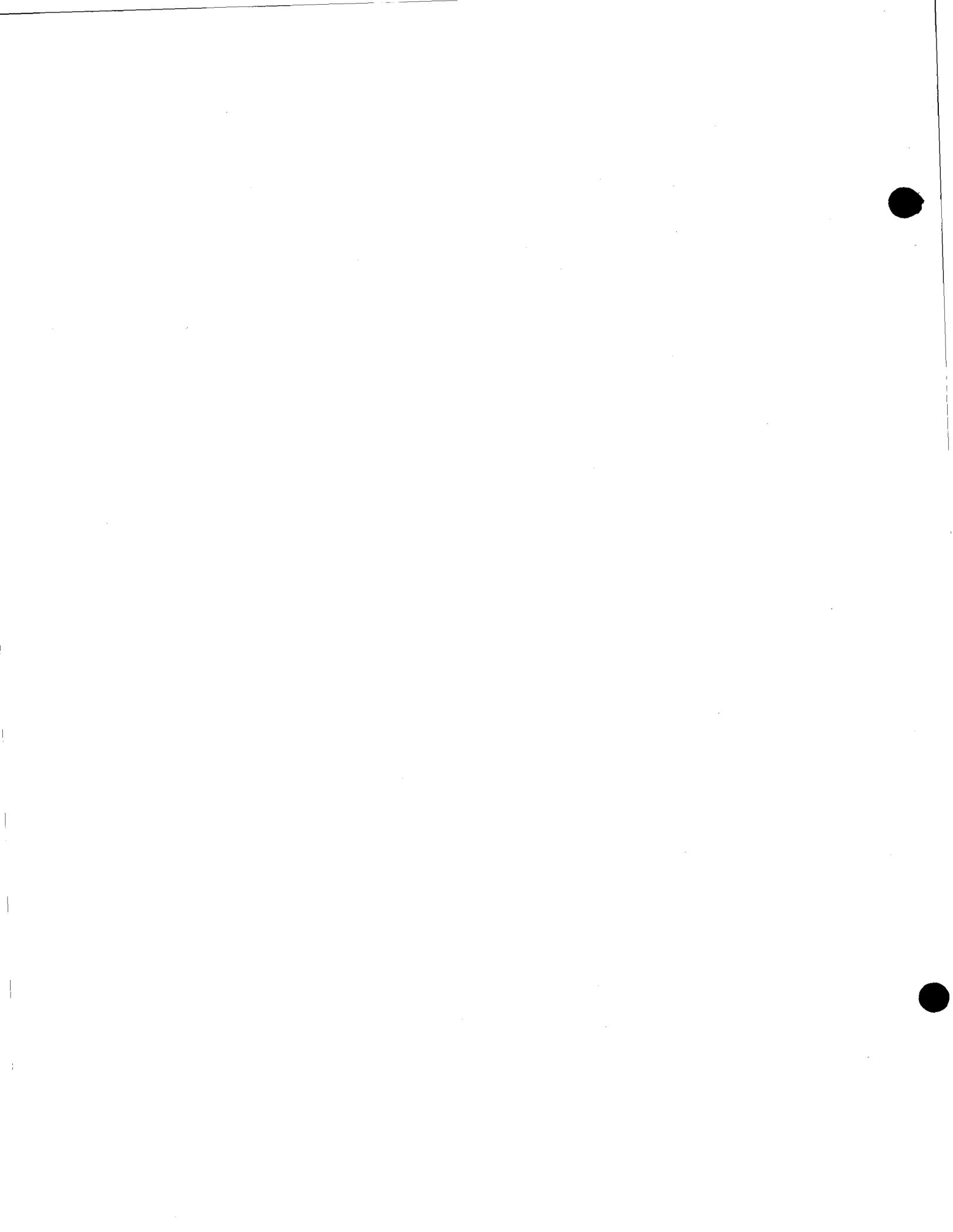


BELL SYSTEM
TRANSMISSION NETWORKS

X-75522

Prepared by
Bell Telephone Laboratories, Incorporated
Merrimack Valley Laboratory



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BELL SYSTEM TRANSMISSION

NETWORKS

1. INTRODUCTION

This is one of a series of Engineering Reference Data Bulletins containing information on apparatus designed by the Bell Telephone Laboratories, Incorporated, for other than Military Applications, and manufactured by the Western Electric Company. Information on coded filters and equalizers is presented in this issue of the bulletin. Information on coded networks will be added in future reissues. It is intended for use primarily by engineers of the Laboratories, and contains information on apparatus of all ratings and classifications except that rated Manufacture Discontinued. Apparatus codes rated AT&TCo Standard, A&M Only, Component Part, Non-Associate, and codes classified ML are included.

Information given herein is intended to aid in development work. In any specific circuit arrangement, however, consideration should be given to the possible existence of new designs which may be smaller or less expensive, or may have more desirable characteristics.

To obtain the latest information and complete characteristics for any application, call the Technical Clerk, Engineering Reference Files, Merrimack Valley Laboratories.

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

The bulletin includes some codes of apparatus for which catalog cards will not be found in the Western Electric Apparatus Card Catalog. Such codes are in general rated "Component Part". This rating is applied to apparatus where it is believed that the associated companies will have no need for apparatus card catalog information and orders from the field for the apparatus are not expected.

When apparatus which is not listed on a white card in the Western Electric Apparatus Card Catalog is selected for use in new applications, the Standards Engineer, Department 5241, Bell Telephone Laboratories, Incorporated, 463 West Street, N.Y.14, N.Y. should be notified of the new use and probable demand so that consideration can be given to rerating the apparatus. When such new applications are made within the Laboratories, the selection should first be discussed with the department responsible for the design of the apparatus.

2. GENERAL

Indices of filters and equalizers follow the introduction. These indices are arranged numerically by codes. The five sections con-

cerning filters that follow these indices are arranged in accordance with the table below.

<u>Section</u>	<u>Title</u>	<u>Arranged in Ascending Order of :</u>
I	Band Elimination	Center of Suppression Range-KC
II	Band Pass	Mid-Band Frequency-KC
III	High Pass	3 DB Cut-Off in KC
IV	Low Pass	3 DB Cut-Off in KC
V	Combined	3 DB Cut-Off in KC

The twelve sections concerning coded equalizers are arranged basically by carrier systems in which they are intended to operate. For each system the equalizers are arranged numerically by code number.

3. ABBREVIATIONS

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

Att - Attenuation

Bal - Balanced

B. El. - Band Elimination

BP - Band Pass

CO - Continuously Adjustable Equalizer
Characteristics

db - Decibels

deg - Degrees

Del - Delay

Disc - Discrimination

F - Fixed Equalizer

HP- High Pass

KC - Kilocycles per Second

Lin - Linear Frequency Scale

Log - Logarithmic Frequency Scale

LP - Low Pass

Mc - Megacycles per Second

3. ABBREVIATIONS (Contd.)

msec - Milliseconds

musec - Millimicroseconds

Perf. Char. - Performance Characteristics

Ph - Phase

PL - Plug-In mounting

RS - Receiving Section

ST - Strapped: Adjustable Characteristics.
The number of adjustments is shown

SW - Switched: Adjustable Characteristics.
The number of switching positions is
indicated

TS - Transmitting Section

Unbal - Unbalanced

Usec - Microseconds

Under the heading "mtg fig" or "mtg" reference is made to the letters A, B and C. These letters refer to the illustrations on the following pages showing methods of mounting.

A - Double Side Mounting

B - Pole Mounting

C - Single Side and all other mounting
arrangements

4. NOTES ON EQUALIZERS

4.1 Impedance

Impedances at input and output of equalizers are identical except where noted.

4.2 Type

Where "Disc" is given in the "Type" column, the attenuation characteristic is relative to some reference level of insertion loss, hence the term "discrimination".

4.3 Fig.

A rough approximation to the shape of the performance characteristic may be obtained by reference to the figure or figures listed in the "Fig." column.

4.4 Units

Units of the ordinate scales are shown under "Units". The abbreviations used are explained in section 3, on the preceding page.

4.5 Frequency

Maxima and Minima for performance characteristics occur at the frequencies listed. These points correspond to the maxima and minima shown on the reference figures.

4.6 Performance Characteristics

The magnitudes of maxima and minima of performance characteristics are given under Loss-Delay-Phase. Where the magnitude at 1 KC is of reference importance that figure is given also. Some equalizers have similarly shaped characteristics over two or more frequency bands, such as in the 217-type equalizers. Other equalizers have differently shaped characteristics in separated frequency bands, as in the 40A and 49A equalizers.

4.7 Log or Lin

Some performance characteristics are plotted with linear frequency scales, some with logarithmic frequency scales, thus affecting the shape of the curves.

4.8 Steps

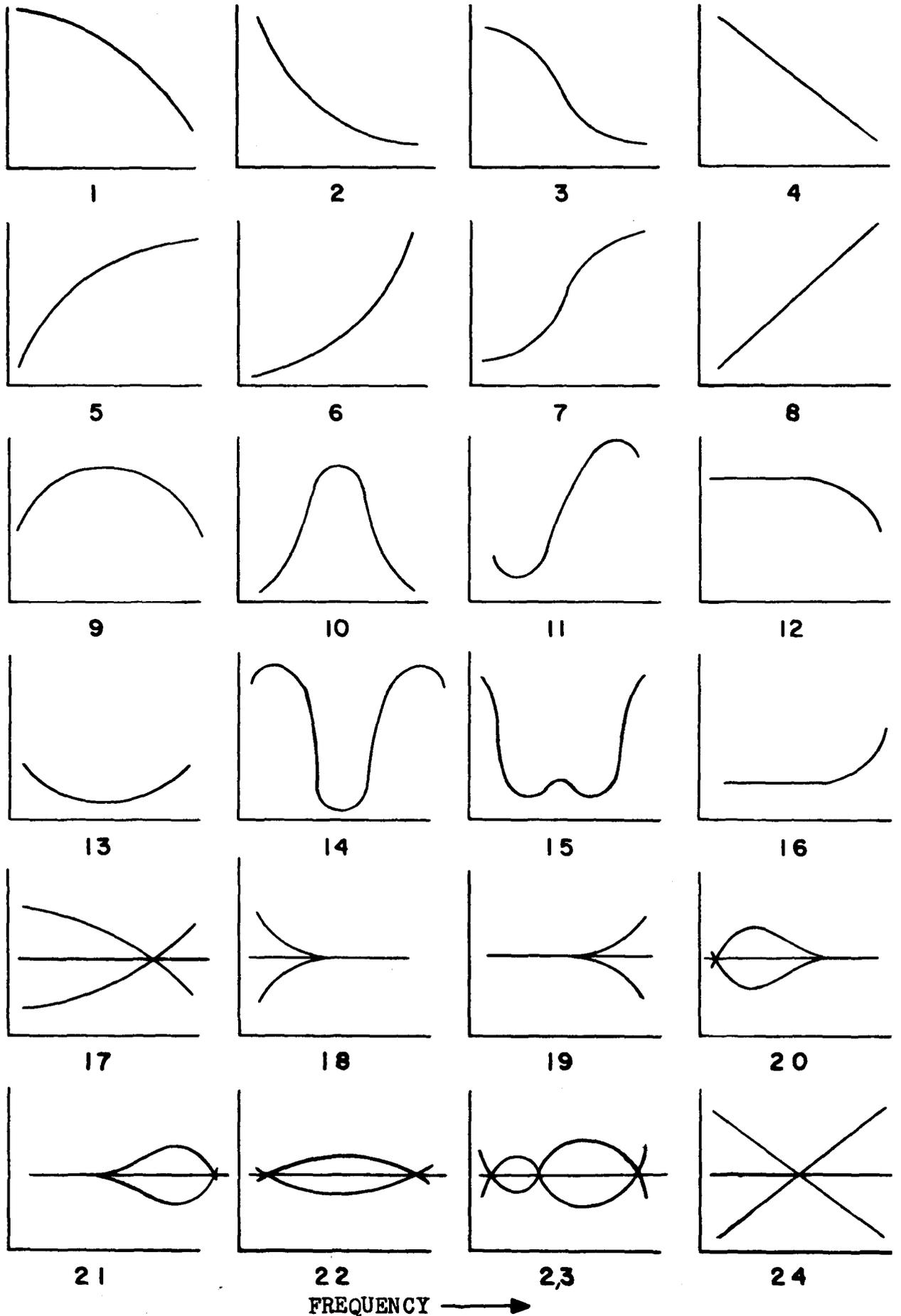
The number of adjustment steps, if any, are specified in the "steps" column. Abbreviations are explained in section 3, on the preceding page.

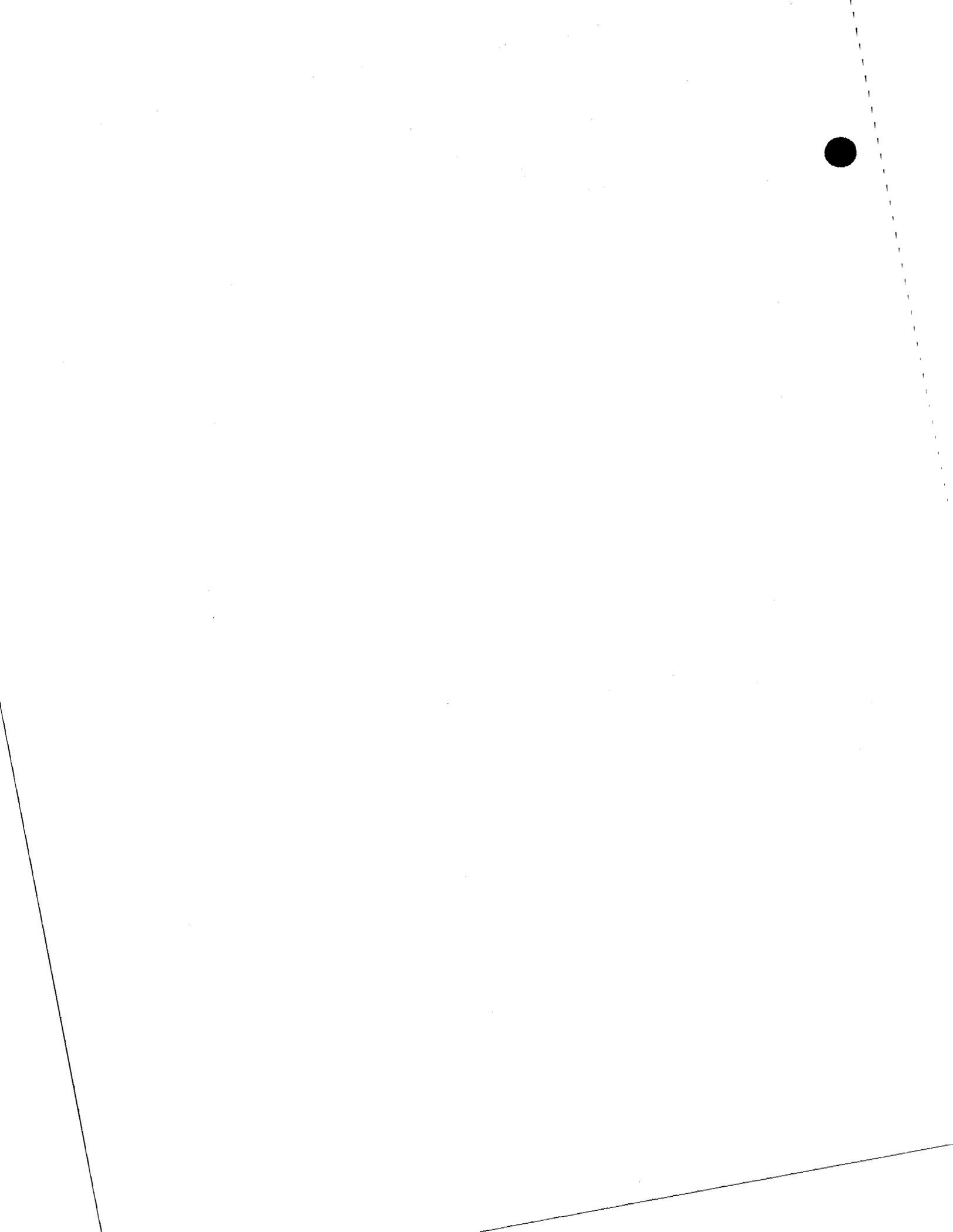
4.9 Dimensions

Size dimensions are exclusive of studs and terminals, rounded off to two decimals.

EQUALIZER AND NETWORK PERFORMANCE CHARACTERISTIC SHAPES

↑ INSERTION LOSS, INSERTION PHASE, ENVELOPE DELAY OR IMPEDANCE





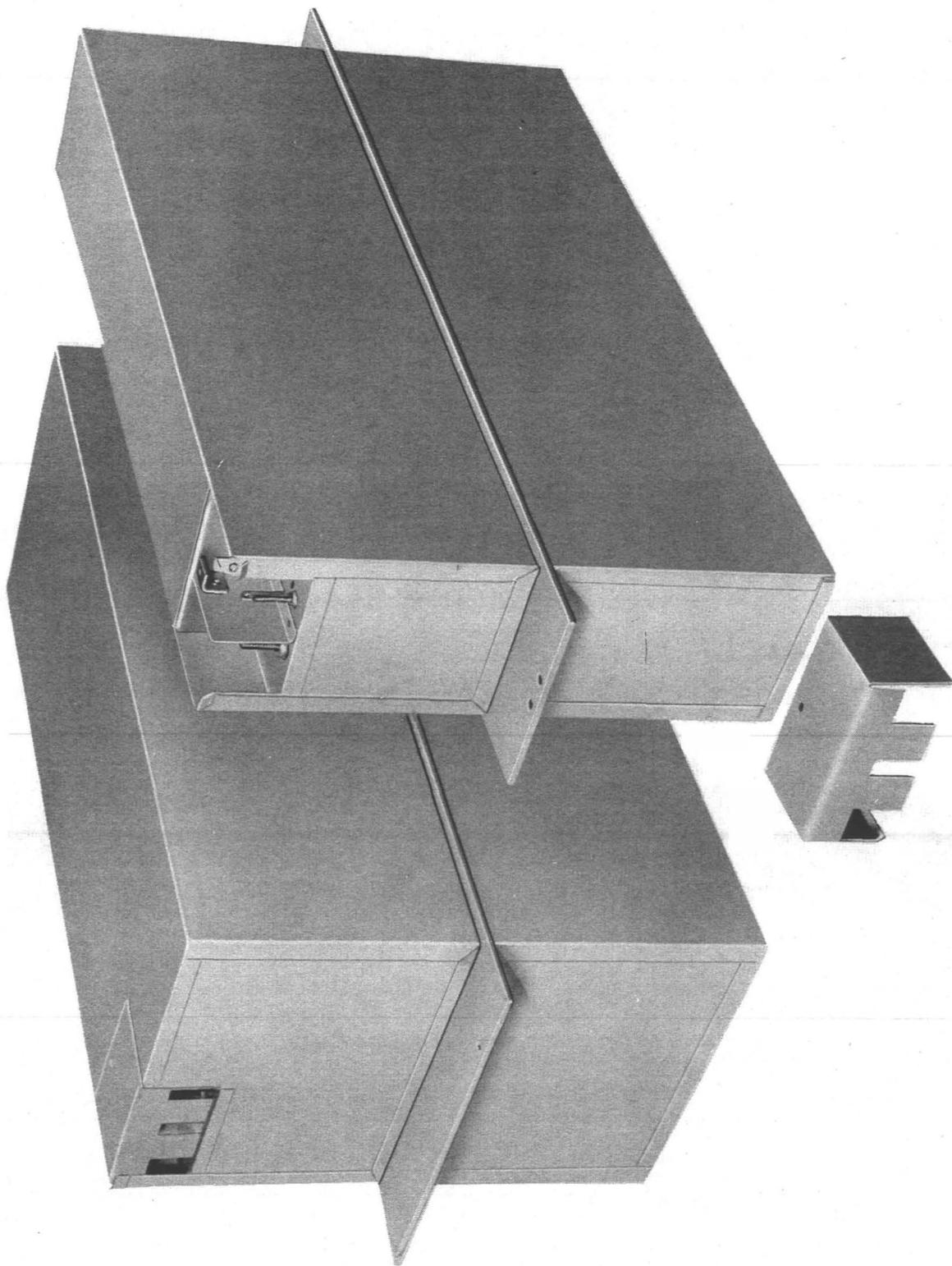


FIG. A - Double Side Mounting

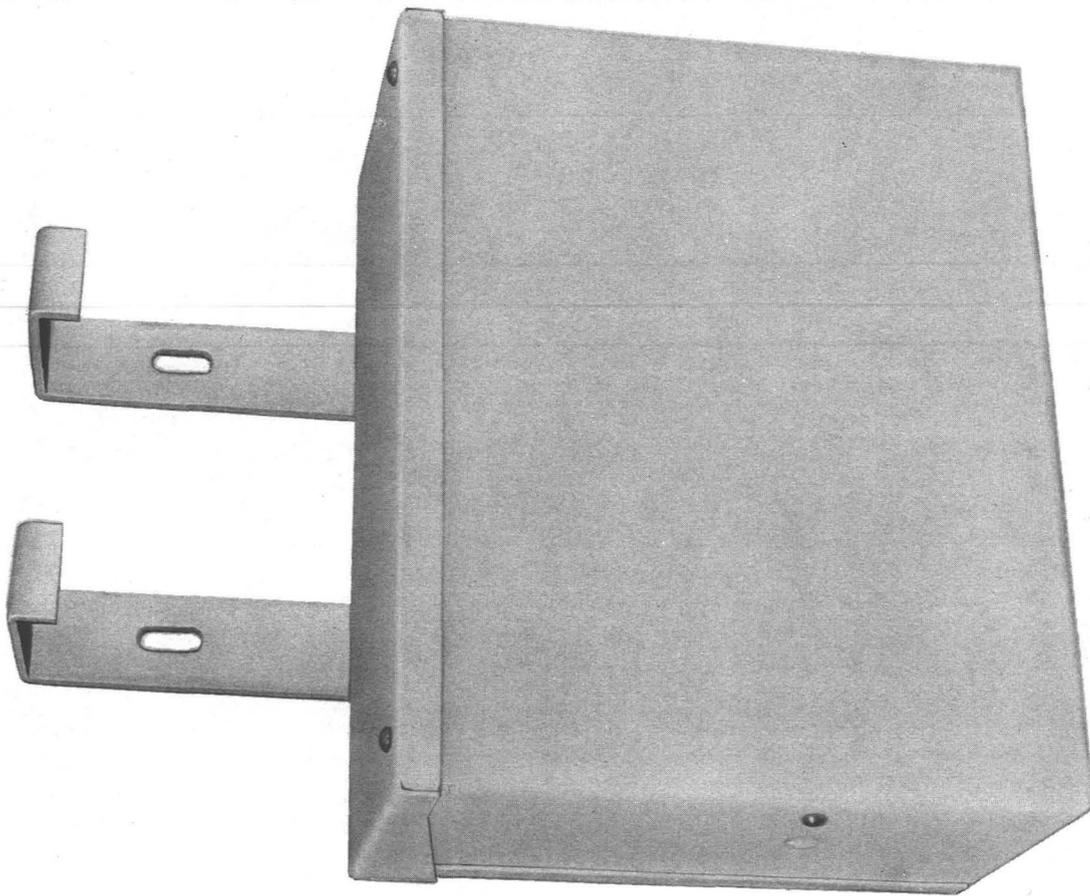


FIG. B - Pole Mounting

June 1961

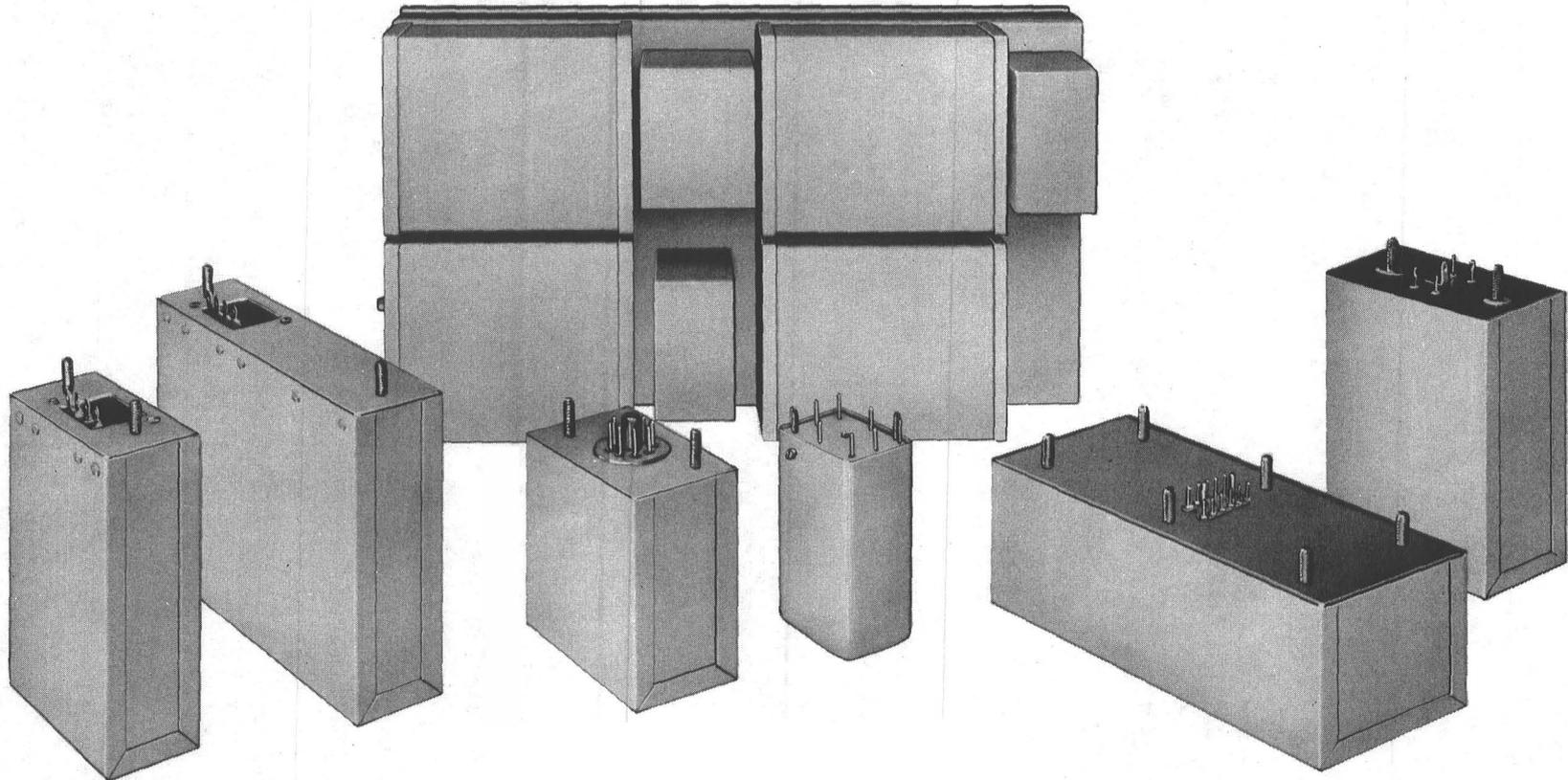
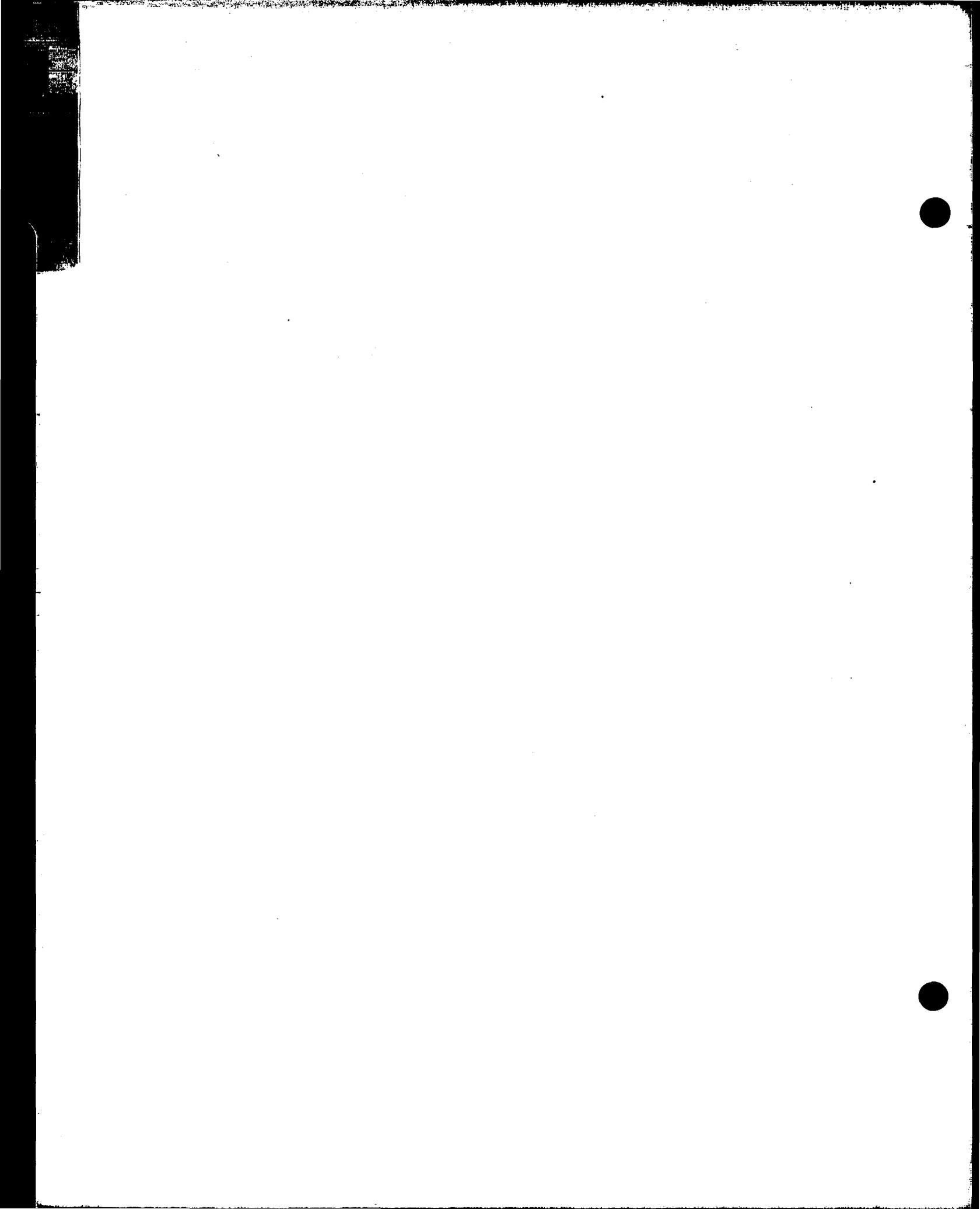


FIG. C - Single Side and all other mounting arrangements





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BAND ELIMINATION FILTERS

CENTER OF SUPPRESSION RANGE KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
.000	.040	554A	Bal.	600:600	.580 - .620 at 30 db	2-3/4 x 3-15/32 x 4-3/8	C	102A Key Equip.-Signal Suppression Filter
1.002	.045	201C	Bal.	600:600	.980 - 1.025 at 40 db	5-1/8 x 1-1/2 x 4-29/32	C	No. 111A Key Equip.
1.400	.032	509A	Unbal.	24,000 : 91,000	1.384 - 1.410 at 25 db	1-19/32 x 25/32 x 2-1/2	C	50B Recorder Connector at Sub Stations
1.400	.200	500A	Unbal. Unbal.	24,000:91,000 24,000:91,000	1.300 - 1.500 at 20 db 2.560 - 3.100 at 20 db	1-5/8 x 1-1/2 x 3-1/2	C	50A Recorder Connector at Sub Stations
1.500	.044	554B	Bal.	600:600	1.478 - 1.522 at 25 db	2-3/4 x 3-15/32 x 4-3/8	C	102A Key Equip.-Signal Suppression Filter
2.465	.055	202F	Unbal.	600:600	2.440 - 2.490 at 40 db	6-7/8 x 1-1/2 x 4-29/32	C	Dual Facility Equip. & SAGE
2.635	.054	202E	Unbal.	600:600	2.608 - 2.662 at 40 db	6-7/8 x 1-1/2 x 4-29/32	C	Dual Facility Equip. & SAGE
6.100	3.300	98A	Bal.	300:600	4.700 - 8.000 at 20 db	1-27/32 x 1-1/2 x 2-17/32	C	H1 Carr.-Intermediate bridge points
27.000	1.000	505M	Unbal.	600:600	27.100 - 28.000 at 40 db	1-7/16 x 1-7/16 x 2-11/16	C	J68831A Vis. Gain & Delay Set-L3 Carr.
37.000	10.700	135A	Bal.	135:135	32.400 - 43.100 at 80 db	19 x 10-7/8 x 17-15/32	A	Program branching points-K Carr.
49.002	.036	508B (a)	Bal.	135:135	49.984 - 49.020 at 35 db	10-7/8 x 7-1/16 x 7-1/8	C	Modulation Measurements-K Carr.
60.001	.018	215A	Bal.	135:135	59.992 - 60.010 at 50 db	16-5/32 x 3-13/32 x 4-29/32	C	K2 Carr.-receiving Term. Equip.-Pilot Elimination
60.003	.054	222A	Bal.	135:135	59.976 - 60.030 at 80 db	16-5/32 x 4-7/8 x 4-29/32	C	K2 Carr. Tel. System-Program Circuits at Branching Points
63.980	.140	539A	Unbal.	75:75	63.905 - 64.045 at 40 db	2-7/32 x 2 x 4-1/2	C	TU-2 Radio & L1 Carr.-Interconnections
63.999	.225	216A	Bal.	135:135	63.875 - 64.100 at 30 db	16-5/32 x 4-7/8 x 4-29/32	C	K2 Carr.-Transmitting Term. Equip. Pilot Elimination
64.000	1.400	226S	Unbal.	75:75	63.300 - 64.700 at 25 db	1-21/32 x 3-13/32 x 4-29/32	A	J68831A Visual Gain & Delay Set-L1 Carr.
92.002	.024	220A	Bal.	135:135	91.990 - 92.014 at 40 db	3-13/32 x 10-13/32 x 4-29/32	C	L1 Carr. Tel. System-Suppression Filter
192.000	8.000	167M	Unbal.	600:600	188.000 - 196.000 at 20 db	2 x 1-9/16 x 3-7/16	C	N1 Carr.
288.000	16.000	546A	Unbal.	75:75	280.000 - 296.000 at 35 db	3-13/32 x 6-29/32 x 4-31/32	C	L3 Carr. Multi-line Automatic Switching Circuit

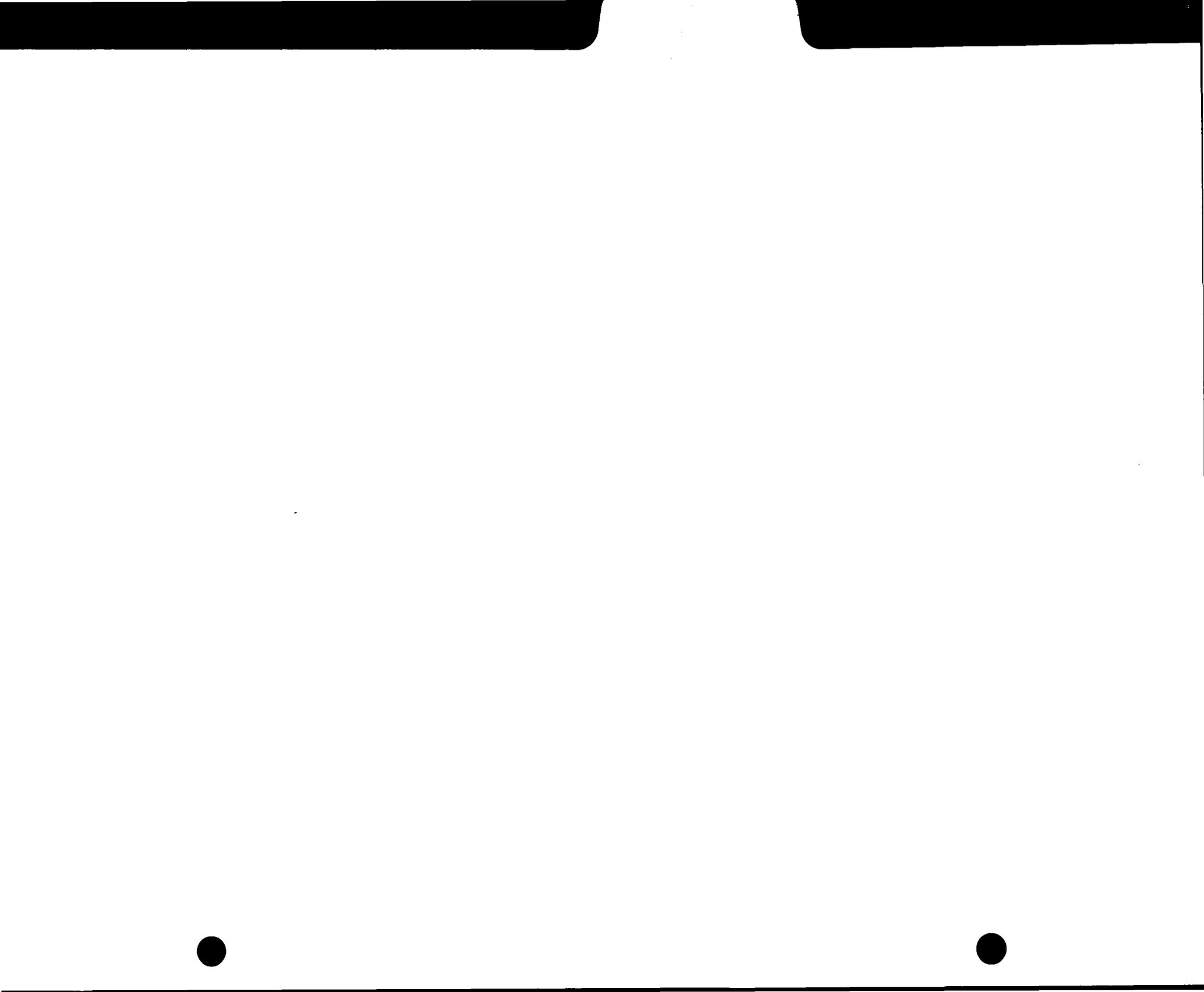
(a) assembled in metal carrying case.

BAND ELIMINATION FILTERS								
CENTER OF SUPPRESSION RANGE KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
556.012	.065	219R	Unbal.	75:75	555.980 - 556.045 at 30 db	8-21/32 x 3-13/32 x 4-29/32	C	In Supergroup Connector-L1 Carr.
2290.000	248.000	222D	Unbal.	75:75	2168.000 - 2416.000 at 40 db	16-5/32 x 4-7/8 x 4-29/32	C	Supergroup 9 Blocking Filter-L1 Carr.
2680.000	285.000	222E	Unbal.	75:75	2540.000 - 2825.000 at 40 db	10-5/32 x 4-7/8 x 4-29/32	C	Supergroup 10 Blocking Filter-L1 Carr.
4139.003	.027	542A	Bal.	124:124	4138.990 - 4139.017 at 35 db	3-15/32 x 19 x 8-3/16	A	L3 Coaxial-R3 Television Terminal
7260.000	.115	546B	Unbal.	75:75	7259.940 - 7260.055 at 30 db	3-13/32 x 6-29/32 x 4-29/32	C	L3 Carr.-J68837A Cosine Equal. Adj. Set
63.999 103.995	.016 .030	109A	Bal. Bal.	140:140 140:140	63.991 - 64.007 at 30 db 103.980 - 104.010 at 30 db	16-7/16 x 3-13/32 x 4-29/32	C	J2 Carr.-K-J2 Group Conn. Panels Pilot Elimination
63.999 91.996 108.002	.014 .014 .018	109B	Bal. Bal. Bal.	135:135 135:135 135:135	63.992 - 64.006 at 30 db 91.989 - 92.003 at 30 db 107.993 - 108.011 at 30 db	16-7/16 x 3-13/32 x 4-29/32	C	K Carr.-J2-K Group Conn. Panels Pilot Elimination
56.000 60.000 108.998 110.999	.010 .011 .013 .013	119A	Bal. Bal. Bal. Bal.	135:135 135:135 135:135 135:135	57.995 - 58.005 at 50 db 59.995 - 60.006 at 50 db 108.992 - 109.005 at 50 db 110.993 - 111.006 at 50 db	16-7/16 x 4-7/8 x 4-29/32	C	J & K Carr. Sys.-Pilot Elimination
112.000 416.500	6.000 7.000	167J	Unbal. Unbal.	600:600 600:600	109.000 - 115.000 at 20 db 413.000 - 420.000 at 20 db	2 x 1-9/16 x 3-7/16	C	N1 Carr.
556.001 2064.007 3095.970	.014 .060 .148	503A (b)	Unbal. Unbal. Unbal.	75:75 75:75 75:75	555.994 - 556.008 at 50 db 2063.977 - 2064.037 at 50 db 3095.898 - 3096.046 at 50 db	19 x 10-3/16 x 10-15/32	A	L1 Carr.-C2 Receiving Tel. Term.
556.001 2064.007	.014 .000	503B	Unbal. Unbal.	75:75 75:75	555.994 - 556.008 at 50 db 2063.977 - 2064.037 at 50 db	19 x 10-3/16 x 10-15/32	A	At the Branching Points of L1 Carr. when used to transmit NTSC Color TV.
7266.130 8320.001	.340 .087	542B	Unbal. Unbal.	75:75 75:75	7265.960 - 7266.300 at 40 db 8319.958 - 8320.045 at 35 db	3-15/32 x 19 x 8-1/16	A	L3 Coaxial-T3 & R3 Terminals
60 by more than 20 db) 64 by more than 20 db) 92 by more than 20 db) 108 by more than 20 db)		221T	Bal.	135:135	-	16-5/32 x 3-13/32 x 4-29/32	C	K & L Carr.-J-L & K-L Connectors Pilot Elimination
Every 4 KC from 60 to 108 KC by more than 15 db		512A	Bal.	135:135	-	19 x 5-7/32 x 5-13/32	C	J2 Open Wire Carr. Tel. Sys. in Term. Equip.

(b) Network made up of crystal filters & trans. enclosed in 3A oven. Assembled together with repeat coil & equalizers.

BAND PASS
FILTERS

II



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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
.164	.022	206C	Bal.	600:600	.154 - .176	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.195	.021	206D	Bal.	600:600	.184 - .205	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.224	.022	206E	Bal.	600:600	.213 - .235	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.240	.120	124U	Unbal.	600:600	.190 - .310	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.253	.022	206F	Bal.	600:600	.243 - .265	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.259	.095	125U	Unbal.	600:600	.215 - .310	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.266	.090	201B	Bal.	550:550	.225 - .315	5-1/8 x 1-1/2 x 4-29/32	C	Identification circuit-message ticketing service
.285	.022	206G	Bal.	600:600	.273 - .295	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.313	.023	206H	Bal.	600:600	.302 - .325	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.344	.015	206J	Bal.	600:600	.336 - .351	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.374	.016	206K	Bal.	600:600	.366 - .382	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.404	.015	206J	Bal.	600:600	.396 - .411	5-1/8 x 3-13/32 x 5-	C	Automatic Toll Ticketing Sys. In Identifier Circuit
.420	.135	49A (c)	Unbal.	600:600	.355 - .490 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.420	.115	124A	Unbal.	600:600	.370 - .485	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.430	.100	49A (c)	Unbal.	600:600	.380 - .480 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.430	.100	125A	Unbal.	600:600	.380 - .480	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.432	.016	206M	Bal.	600:600	.425 - .441	5-1/8 x 3-13/32 x 5	C	Automatic Toll Ticketing Sys. In Identifier Circuit

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(c) TS Transmitting Section, RS Receiving Section.

BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
.503	.094	507A	Unbal.	1000:2 megohms	.458 - .552	5-13/16 x 2-3/8 x 4-5/8	C	Connected between 75A Test Set & Input of 107A Ampl.-Cable Fault Locating
.585	.095	125C	Unbal.	600:600	.720 - .815	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.590	.135	49B (c)	Unbal.	600:600	.530 - .665 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.590	.110	49B (c)	Unbal.	600:600	.540 - .650 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.590	.120	124B	Unbal.	600:600	.535 - .655	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.600	.100	125B	Unbal.	600:600	.550 - .650	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.610	.130	92A	Unbal. Unbal.	10,000:325 10,000:325	.550 - .680	3-13/32 x 2-9/16 x 4-3/8	C	566A Panel-24A Radio Rec.
.699	.080	200E	Unbal.	600:200,000	.660 - .740	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys.-TD-2 Radio
.700	.120	130C	Unbal.	600:120,000	.640 - .760	6-15/16 x 1-5/8 x 4-13/32	C	A.C. Key Pulsing Rec.
.700	.130	200P	Unbal. Unbal.	600:120,000 600:120,000	.640 - .770 .830 - .965	3-3/8 x 1-1/2 x 4-29/32	C	MF Rec.-AC Key Pulsing Signalling Sys.
.760	.115	49C (c)	Unbal.	600:600	.705 - .820 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.760	.120	124C	Unbal.	600:600	.705 - .825	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
.770	.120	49C (c)	Unbal.	600:600	.710 - .830 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.800	2.380	168M	Unbal.	10000:10000	.220 - 2.600	2 x 1-9/16 x 3-7/16	C	Misc. Testing Unit - SAGE Sys. J1GCOOP-90
.899	.080	200F	Unbal.	600:200,000	.860 - .940	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys. - TD-2 Radio
.900	.124	130D	Unbal.	600:120,000	.840 - .964	6-15/16 x 1-5/8 x 4-13/32	C	AC Key Pulsing Rec.
.900	.135	200P	Unbal. Unbal.	600:120,000 600:120,000	.640 - .770 .830 - .965	3-3/8 x 1-1/2 x 4-29/32	C	MF Rec.-AC Key Pulsing Signalling Sys.
.936	.095	125D	Unbal.	600:600	.890 - .985	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.

(c) TS Transmitting Section, RS Receiving Section.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
.940	.130	49D (c)	Unbal.	600:600	.880 - 1.010 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.940	.100	49B (c)	Unbal.	600:600	.890 - .990 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
.940	.125	124D	Unbal.	600:600	.875 - 1.000	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.010	.590	514A	Unbal.	Vac. Plate: Vac. Tube Grid	755.000 - 1.345	4-1/8 x 3-1/4 x 3-1/4	C	LD-T2 Radio Transmitter-LD Radio Sys.
1.068	1.300	128D	Unbal.	600:600	.600 - 1.900	3-3/8 x 1-1/2 x 4-29/32	C	A. C. Key Pulsing Rec., In No. 4 Crossbar Toll Office
1.068	1.300	199A (am)	Unbal.	600:600	.600 - 1.900	2-17/32 x 1-1/2 x 4-29/32	C	TD-2 Radio Sys.
1.099	.080	200P	Unbal.	600:200,000	1.060 - 1.140	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys. - TD-2 Radio
1.100	.110	49E (c)	Unbal.	600:600	1.050 - 1.160 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.100	.120	124E	Unbal.	600:600	1.040 - 1.160	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.100	.120	130E	Unbal.	600:120,000	1.042 - 1.162	6-15/16 x 1-5/8 x 4-13/32	C	AC Key Pulsing Rec.
1.100	1.150	201D	Unbal.	7000:7000	.650 - 1.800	5-1/8 x 1-1/2 x 4-29/32	C	UF Receiver-AC Key Pulsing
1.104	.090	125E	Unbal.	600:600	1.060 - 1.150	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.110	.120	49E (c)	Unbal.	600:600	1.050 - 1.170 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.110	.135	200R	Unbal. Unbal.	600:120,000 600:120,000	1.040 - 1.175 1.230 - 1.365	3-3/8 x 1-1/2 x 4-29/32	C	MF Rec.-AC Key Pulsing Signaling Sys.
1.220	.930	201G	Unbal.	600:7000	.840 - 1.770	5-1/8 x 1-1/2 x 4-29/32	C	TD-2 Radio Sys.-Automatic Switching Control Panel
1.270	.130	49F (c)	Unbal.	600:600	1.210 - 1.340 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.270	.100	49F (c)			1.220 - 1.320 RS			
1.270	.125	124F	Unbal.	600:600	1.210 - 1.335	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.270	.100	125F	Unbal.	600:600	1.225 - 1.325	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.299	.080	200H	Unbal.	600:200,000	1.260 - 1.340	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys.-TD-2 Radio
1.300	.120	130F	Unbal.	600:120,000	1.240 - 1.360	6-15/16 x 1-5/8 x 4-13/32	C	AC Key Pulsing Rec.

(c) TS Transmitting Section, RS Receiving Section.

(am) Compensating Filter in parallel with 200P, R & S Filters. Similar to 128D Filter.

II-3

BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
1.300	.135	200R	Unbal. Unbal.	600:120,000 600:120,000	1.040 - 1.175 1.230 - 1.365	3-3/8 x 1-1/2 x 4-29/32	C	MF Rec.-AC Key Pulsing Signalling Sys.
1.440	.130	49G (c)	Unbal.	600:600	1.380 - 1.510 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.440	.100	125G	Unbal.	600:600	1.395 - 1.495	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.450	.125	124G	Unbal.	600:600	1.385 - 1.510	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.454	.090	49G (c)	Unbal.	600:600	1.410 - 1.500 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.499	.080	200J	Unbal.	600:200,000	1.460 - 1.540	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys.-TD-2 Radio
1.500	.118	130G	Unbal.	600:120,000	1.440 - 1.558	6-15/16 x 1-5/8 x 4-13/32	C	AC Key Pulsing Rec.
1.510	.135	200S	Unbal. Unbal.	600:120,000 600:120,000	1.445 - 1.580 1.635 - 1.775	3-3/8 x 1-1/2 x 4-29/32	C	MF Rec. AC Key Pulsing Signalling Sys.
1.520	.170	92A	Unbal. Unbal.	10,000:325 10,000:325	.550 - .680	3-13/32 x 2-9/16 x 4-3/8	C	566A Panel-24A Radio Rec.
1.610	.130	49H (c)	Unbal.	600:600	1.550 - 1.680 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.610	.125	124H	Unbal.	600:600	1.550 - 1.675	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.610	.100	125H	Unbal.	600:600	1.565 - 1.665	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.620	.100	49H (c)	Unbal.	600:600	1.570 - 1.670 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.699	.080	200K	Unbal.	600:200,000	1.660 - 1.740	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys.-TD-2 Radio
1.700	.126	130H	Unbal.	600:120,000	1.636 - 1.762	6-15/16 x 1-5/8 x 4-13/32	C	AC Key Pulsing Rec.
1.700	.140	200S	Unbal. Unbal.	600:120,000 600:120,000	1.445 - 1.580 1.635 - 1.775	3-3/8 x 1-1/2 x 4-29/32	C	MF Rec.-AC Key Pulsing Signalling Sys.
1.780	.140	49J (c)	Unbal.	600:600	1.710 - 1.850 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.780	.100	49J (c)	Unbal.	600:600	1.730 - 1.830 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.

(c) TS Transmitting Section, RS Receiving Section.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL./UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
1.790	.110	124J	Unbal.	600:600	1.735 - 1.845	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.810	.100	125J	Unbal.	600:600	1.730 - 1.830	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.899	.080	200L	Unbal.	600:200,000	1.860 - 1.940	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys.-TD-2 Radio
1.952	.095	125K	Unbal.	600:600	1.905 - 2.000	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.954	.090	49K (c)	Unbal.	600:600	1.910 - 2.000 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.960	.140	49K (c)	Unbal.	600:600	1.890 - 2.030 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
1.960	.115	124K	Unbal.	600:600	1.900 - 2.015	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
1.980	.205	168C	Unbal.	1275:750,000	1.875 - 2.080	2 x 1-9/16 x 3-7/16	C	Nos. 1 & 5 Crossbar Tel. Sys. J-93017J Line Insulation Test Unit
2.100	.080	200M	Unbal.	600:200,000	2.060 - 2.140	3-3/8 x 1-1/2 x 4-29/32	C	C1 Control & Alarm Sys.-TD-2 Radio
2.120	.100	49L (c)	Unbal.	600:600	2.070 - 2.170 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
2.122	.085	125L	Unbal.	600:600	2.080 - 2.165	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.130	.120	49L (c)	Unbal.	600:600	2.070 - 2.190	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
2.130	.100	124L	Unbal.	600:600	2.080 - 2.180	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.290	.130	49M (c)	Unbal.	600:600	2.230 - 2.360 TS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
2.290	.100	49M (c)	Unbal.	600:600	2.240 - 2.340 RS	19 x 13 x 3-15/32	A	Voice Freq. Carr. Teleg. Sys.
2.290	.120	124M	Unbal.	600:600	2.235 - 2.355	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.295	.080	125M	Unbal.	600:600	2.255 - 2.335	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.460	.115	124N	Unbal.	600:600	2.405 - 2.520	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.465	.090	125N	Unbal.	600:600	2.420 - 2.510	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.630	.120	124P	Unbal.	600:600	2.570 - 2.690	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.

(c) TS Transmitting Section, RS Receiving Section.

5-II

BAND PASS FILTERS

MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
2.637	.095	125P	Unbal.	600:600	2.590 - 2.685	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.700	1.800	208A (d,e)	Bal. Bal. Bal.	600:600 600:600 600:600	1.900 - 3.700 0 - 1.760 0 - 1.800	8-5/8 x 3-13/32 x 5	C	J-68640 two-channel bank - Type EB
2.700	1.800	208B (d,f)	Bal. Bal. Bal.	600:600 600:600 600:600	1.900 - 3.700 0 - 1.760 0 - 1.780	8-5/8 x 3-13/32 x 5	C	J-68640 two-channel bank - Type EB
2.710	.510	517A	Unbal.	600:600	2.470 - 2.980	19 x 3-15/32 x 4-29/32	C	A3 Privacy Sys.
2.800	.120	124R	Unbal.	600:600	2.740 - 2.860	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.807	.095	125R	Unbal.	600:600	2.760 - 2.855	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.970	.115	124S	Unbal.	600:600	2.915 - 3.030	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
2.975	.090	125S	Unbal.	600:600	2.930 - 3.020	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
3.140	.125	124T	Unbal.	600:600	3.080 - 3.205	3-15/32 x 2-21/32 x 4-23/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
3.147	.085	125T	Unbal.	600:600	3.105 - 3.190	4-15/16 x 2-21/32 x 5-25/32	C	40C1 Voice Freq. Carr. Teleg. Sys.
3.690	.330	168H	Unbal.	10000:10000	3.530 - 3.860	2 x 1-9/16 x 3-7/16	C	N1 & OP Carr.-J-98703 & J-98705 Terminal & Repeater Equip.
3.710	.140	169A	Unbal.	10000:10000	3.640 - 3.780	1-5/16 x 1-7/16 x 2-13/32	C	N1 Carr.-J-98703F Channel Unit
3.740	.825	209D	Bal. Bal.	300:300 300:300	3.350 - 4.175 4.290 - 5.240	10-3/8 x 3-13/32 x 4-29/32	C	Directional Filter-43A1 Carr.
4.500	3.100	209A	Unbal.	600:600	3.250 - 6.350	10-3/8 x 3-13/32 x 4-29/32	C	J-68334A B1 Channel Shifter Panel -LD Radio
4.740	.950	209D	Bal. Bal.	300:300 300:300	3.350 - 4.175 4.290 - 5.240	10-3/8 x 3-13/32 x 4-29/32	C	Directional Filter-43A1 Carr.
5.200	3.100	85B	Unbal. Unbal.	600:600 600:600	3.900 - 7.000 7.500 - 10.500	8-9/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys., Directional Filter at West Term.
5.200	4.000	208E	Unbal. Unbal.	600:600 600:600	3.900 - 7.000 7.500 - 10.500	8-5/8 x 3-13/32 x 5	C	Directional Filter-H Carr.
5.300	3.000	85A	Unbal. Unbal.	600:600 600:600	4.000 - 7.000 7.300 - 10.600	8-9/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys. Directional Filter at East Term.

(d) 1.900 - 3.700 (3DB Cut-Off) Filter is Band Pass, Remainder are Low Pass.

(e) One filter acts as modulator.

(f) One filter acts as demodulator.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
5.300	3.000	208D	Unbal. Unbal.	600:600 600:600	4.000 - 7.000 7.300 - 10.600	8-5/8 x 3-13/32 x 5	C	Directional Filter-H Carr.
5.450	(an)	518A	Unbal.	5:50,000	-	19 x 5-7/32 x 5-19/32	C	A3 Privacy Sys.
5.900	3.600	500C	Unbal.	72:72	4.330 - 7.930	19 x 9-7/8 x 6-19/64	A	B2 Television Term.-L1 Carr.
5.900	3.600	500D	Unbal.	72:72	4.330 - 7.930	19 x 9-7/8 x 6-19/64	A	C2 Television Term.-L1 Carr.
6.000	.300	205B	Unbal.	600:600	5.850 - 6.150	3-3/8 x 3-13/32 x 4-29/32	C	L Carr.-45A Trans. Meas. Set
7.700	2.600	89C	Unbal. Unbal.	600:600 600:600	6.500 - 9.100 25.550 - 28.200	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
7.700	2.600	89F	Unbal. Unbal.	600:600 600:600	6.500 - 9.100 27.300 - 29.900	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
8.800	3.300	85A	Unbal. Unbal.	600:600 600:600	4.000 - 7.000 7.300 - 10.600	8-9/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys., Directional Filter at East Term.
8.800	3.300	208D	Unbal. Unbal.	600:600 600:600	4.000 - 7.000 7.300 - 10.600	8-5/8 x 3-13/32 x 5	C	Directional Filter-H Carr.
8.900	3.400	84A (g)	Bal. Bal. Unbal.	1600:1600 1600:1600 600:600	0 - 4.000 0 - 3.400 7.400 - 10.800	4-3/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys.
8.900	3.400	206A (g)	Bal. Bal. Unbal.	1000:1000 1000:1000 600:600	0 - 3.400 0 - 4.000 7.400 - 10.800	5-1/8 x 3-13/32 x 5	C	H Carr.
8.900	3.000	85B	Unbal. Unbal.	600:600 600:600	3.900 - 7.000 7.500 - 10.500	8-9/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys., Directional Filter at West Term.
8.900	3.000	208E	Unbal. Unbal.	600:600 600:600	3.900 - 7.000 7.500 - 10.500	8-5/8 x 3-13/32 x 5	C	Directional Filter-H Carr.
9.450	.100	91G	Unbal.	300:3000	9.400 - 9.500	7-5/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
10.640	.110	91K	Unbal.	300:3050	10.580 - 10.690	7-5/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
10.800	2.600	89A	Unbal. Bal.	600:600 600:600	9.600 - 12.200 17.850 - 20.500	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
10.800	2.600	89D	Unbal. Bal.	600:600 600:600	9.600 - 12.200 19.650 - 22.300	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
11.960	.228	226A	Unbal.	500,000:400,000	11.844 - 12.076	1-21/32 x 3-13/32 x 4-29/32	A	K2 Carr.-Pilot Pickoff

(g) 7.400 - 10.800 (3DB Cut-Off) Filter is Band Pass, Remainder are Low Pass. Suppresses harmonics and unwanted sidebands.

(an) Passes a narrow band of freq. centered at 5.450 KC and suppresses all other frequencies.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
12.000	.022	120A	Bal. Bal. Bal.	1600:1600 1600:1600 1600:1600	11.990 - 12.012 27.968 - 28.050 55.965 - 56.050	16-3/4 x 3-11/32 x 4-31/32	C	K1 Carr. Sys.-Pilot pick-off
12.352	.075	91N	Unbal.	300:3050	12.315 - 12.390	8-3/16 x 5-9/16 x 4-1/4	C	C Arr. Sys.-Cable Connection
14.300	2.600	89B	Unbal. Unbal.	600:600 600:600	13.100 - 15.700 21.550 - 24.150	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
14.300	2.600	89E	Unbal. Unbal.	600:600 600:600	13.100 - 15.700 23.350 - 26.000	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
19.100	2.650	89A	Unbal. Bal.	600:600 600:600	9.600 - 12.200 17.850 - 20.500	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
19.750	.100	91L	Unbal.	300:3050	19.700 - 19.800	7-5/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
20.900	2.650	89D	Unbal. Bal.	600:600 600:600	9.600 - 12.200 19.650 - 22.300	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
21.450	.110	91H	Unbal.	300:3000	21.390 - 21.500	7-5/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
22.800	2.600	89B	Unbal. Unbal.	600:600 600:600	13.100 - 15.700 21.550 - 24.150	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
23.250	.080	91P	Unbal.	300:3050	23.210 - 23.290	8-3/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
23.760	.120	91M	Unbal.	300:3050	23.700 - 23.820	7-5/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
24.360	.120	91J	Unbal.	300:3000	24.300 - 24.420	7-5/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
24.600	2.650	89E	Unbal. Unbal.	600:600 600:600	13.100 - 15.700 23.350 - 26.000	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
26.000	18.800	530L (h)	Unbal. Unbal.	700:600 600:600	18.600 - 37.400 17.000 - INF	3-3/8 x 7-1/2 x 2-1/2	C	OAl Carr.-J-98705AC Repeater Amplifier Unit
26.157	.095	91R	Unbal.	300:3050	26.110 - 26.205	8-3/16 x 5-9/16 x 5-1/4	C	C Carr. Sys.-Cable Connection
26.800	2.650	89C	Unbal. Unbal.	600:600 600:600	6.500 - 9.100 25.550 - 28.200	19 x 10-11/32 x 3-15/32	A	C 5 Carr. Sys. with Modulator & Demodulator Channel
27.000	18.000	531F	Unbal. Unbal.	600:700 135:135	19.000 - 37.000 173.000 - 201.000	3-13/32 x 7-15/32 x 4-3/16	C	OAl Carr.-J-98705AA Group Rec. Unit
28.000	.104	226B	Unbal.	500,000:400,000	27.946 - 28.050	1-21/32 x 3-13/32 x 4-29/32	A	K2 Carr.-Pilot Pickoff

(h) 18.600 - 37.400 (3DB Cut-Off) is Band Pass Filter,
other is High Pass.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
28.000	.040	226P	Unbal.	100,000:100,000	27.980 - 28.020	1-21/32 x 3-13/32 x 4-29/32	A	J-68831A Visual Gain & Delay Set-L3 Carr.
28.009	.082	120A	Bal. Bal. Bal.	1600:1600 1600:1600 1600:1600	11.990 - 12.012 27.968 - 28.050 55.965 - 56.050	16-3/4 x 3-11/32 x 4-31/32	C	K1 Carr. Sys.-Pilot Pickoff
28.600	2.600	89F	Unbal. Unbal.	600:600 600:600	6.500 - 9.100 27.300 - 29.900	19 x 10-11/32 x 3-15/32	A	C5 Carr. Sys. with Modulator & Demodulator Channel
39.900	5.200	221W	Unbal.	5000:5000	37.400 - 42.600	16-5/32 x 3-13/32 x 4-29/32	C	44A Trans. Meas. Set-L Carr.
40.000	.060	107K	Bal.	100:60000	39.970 - 40.030	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-Repeater Stations
40.000	.700	219AN	Unbal.	125:125	39.650 - 40.350	8-21/32 x 3-13/32 x 4-29/32	C	44A Trans. Meas. Set-L1 Carr.
43.000	16.000	530AB	Unbal. Unbal.	135:3000 135:3000	36.000 - 52.000 180.000 - 196.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
47.000	18.200	531A	Unbal. Unbal.	135:3000 135:3000	38.800 - 57.000 59.000 - 77.000	3-13/32 x 7-15/32 x 4-3/16	C	OB1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
47.000	17.600	530A	Unbal. Unbal.	135:135 135:135	39.200 - 56.800 59.400 - 76.800	3-3/8 x 7-1/2 x 2-1/2	C	OB1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
47.000	18.200	530P	Unbal. Unbal.	135:3000 135:3000	38.800 - 57.000 166.000 - 200.000	3-3/8 x 7-1/2 x 2-1/2	C	OB1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
47.000	18.000	530S	Unbal. Unbal.	135:3000 135:3000	39.000 - 57.000 178.500 - 196.500	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
48.990	.101	149A	Unbal.	67:8000	48.944 - 49.045	5-5/32 x 1-1/2 x 5	C	K Carr. Sys.-31A & B Trans. Meas. Set.
50.000	1.450	505A	Unbal.	Vac. Plate: Vac. Grid	49.250 - 50.700	1-7/16 x 1-7/16 x 2-11/16	C	33A Trans. Meas. Set-L1 Carr.
50.100	2.250	505B	Unbal.	Vac. Plate:1000	48.950 - 51.200	1-7/16 x 1-7/16 x 2-11/16	C	33A Trans. Meas. Set-L1 Carr.
55.000	48.000	111A	Unbal.	125:125	36.000 - 84.000	8-3/4 x 3-3/8 x 4-13/16	C	J2 Carr. Sys. in main repeaters & east receiving terms.
55.900	6.000	167K	Unbal.	135:135	53.000 - 59.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
55.995	.090	226C	Unbal.	70,000:50,000	55.950 - 56.040	1-21/32 x 3-13/32 x 4-29/32	A	K2 Carr.-Pilot Pickoff

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
56.007	.085	120A	Bal. Bal. Bal.	1600:1600 1600:1600 1600:1600	11.990 - 12.012 27.968 - 28.050 55.965 - 56.050	16-3/4 x 3-11/32 x 4-31/32	C	K1 Carr. Sys.-Pilot Pickoff
57.995	.090	107A	Bal.	25,000:25,000	57.950 - 58.040	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-at Terms.
59.000	11.900	223L	Unbal.	75:75	53.700 - 65.600	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Pilot band pass
59.000	16.000	530AC	Unbal. Unbal.	135:3000 135:3000	52.000 - 68.000 180.000 - 196.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
60.005	.090	107B	Bal.	25,000:25,000	59.960 - 60.050	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-at Terms.
62.200	3.200	536A	Bal.	600:600	60.600 - 63.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
64.000	.040	107C	Bal.	25,000:25,000	63.980 - 64.020	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-at Terms.
64.000	.300	136E	Bal.	900:25	63.850 - 64.150	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
66.200	3.200	536B	Bal.	600:600	64.600 - 67.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
67.000	18.000	531A	Unbal. Unbal.	135:3000 135:3000	38.800 - 57.000 59.000 - 77.000	3-13/32 x 7-15/32 x 4-3/16	C	OBl Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
67.000	18.000	530R	Unbal. Unbal.	135:3000 135:3000	59.000 - 77.000 167.000 - 200.000	3-3/8 x 7-1/2 x 2-1/2	C	OBl Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
67.000	18.000	530T	Unbal. Unbal.	135:3000 135:3000	59.000 - 77.000 178.500 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
68.000	17.400	530A	Unbal. Unbal.	135:135 135:135	39.200 - 56.800 59.400 - 76.800	3-3/8 x 7-1/2 x 2-1/2	C	OBl Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
68.010	.305	136F	Bal.	900:25	67.855 - 68.160	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
70.200	3.200	536C	Bal.	600:600	68.600 - 71.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
72.000	.305	136G	Bal.	900:25	71.845 - 72.150	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
74.200	3.200	536D	Bal.	600:600	72.600 - 75.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
75.820	.320	136H	Bal.	900:25	75.840 - 76.160	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
76.000	16.000	530AD	Unbal. Unbal.	135:3000 135:3000	68.000 - 84.000 180.000 - 196.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
78.000	.070	210H	Bal.	25000:25000	77.965 - 78.035	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
78.200	3.200	536E	Bal.	600:600	76.600 - 79.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
80.000	.060	107D	Bal.	100:25000	79.970 - 80.030	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-Repeater Stations
80.000	.325	136J	Bal.	900:25	79.840 - 80.165	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
80.000	.185	217L	Unbal.	14500:14500	79.912 - 80.097	5-5/32 x 3-13/32 x 4-29/32	C	No. 4A Frequency Analyser
81.000	.080	210AA	Bal.	25000:25000	80.960 - 81.040	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Program Circuit
81.000	47.500	225D	Bal. Unbal.	135:135	60.500 - 108.000	19 x 10 x 6-31/32	A	J,K,L Group Connector
82.200	3.200	536F	Bal.	600:600	80.600 - 83.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
83.600	8.500	225C	Bal.	1600:1600	79.500 - 88.000	19 x 10 x 6-31/32	A	Program Channel Filter-A Channel Banks
84.000	.325	136K	Bal.	900:25	83.840 - 84.165	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
86.200	3.200	536G	Bal.	600:600	84.600 - 87.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
87.000	18.200	530U	Unbal. Unbal.	135:3000 135:3000	78.800 - 97.000 178.500 - 197.500	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
88.000	18.000	531D	Unbal. Unbal.	135:3000 135:3000	79.000 - 97.000 99.000 - 117.000	3-13/32 x 7-15/32 x 4-3/16	C	OC1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
88.000	.335	136L	Bal.	900:25	87.830 - 88.165	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
88.000	.300	211A	Bal.	150:65	87.850 - 88.150	5-5/32 x 3-13/32 x 4-29/32	C	"A" Broad Band Channel Bank-Carr. Supply Program Ckt.
88.000	18.000	530B	Unbal. Unbal.	135:135 135:135	79.000 - 97.000 99.400 - 116.600	3-3/8 x 7-1/2 x 2-1/2	C	OC1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
88.000	18.000	530C	Unbal. Unbal.	135:3000 135:3000	79.000 - 97.000 164.000 - 205.000	3-3/8 x 7-1/2 x 2-1/2	C	OC1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit

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BAND PASS FILTERS

MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
90.200	3.200	536H	Bal.	600:600	88.600 - 91.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
91.000	18.200	530AE	Unbal. Unbal.	135:3000 135:3000	82.800 - 101.000 165.000 - 205.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
92.000	.080	107E	Bal.	100:25,000	91.960 - 92.040	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-Repeater Stations
92.000	.340	136M	Bal.	900:25	91.830 - 92.170	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
92.004	.021	107L	Bal.	10000:10000	91.994 - 92.015	4-5/32 x 3-1/4 x 4-29/32	C	K Carr. Sys.-J-68790A1 Trans. Alarm Equip. Pilot Pick-off
94.200	3.200	536J	Bal.	600:600	92.600 - 95.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
96.000	.350	136N	Bal.	900:25	95.825 - 96.175	6-29/32 x 3-13/32 x 4-29/32	C	Broad Band Carr. Telephone J-68735 Carr. Supply Ckt.
96.000	6.000	167N	Unbal.	135:135	93.000 - 99.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
96.373	.031	218P	Unbal.	50000:50000	96.357 - 96.388	6-29/32 x 3-13/32 x 4-29/32	C	LE Single Sideband Radio Sys.
96.700	6.500	220D	Bal.	1560:1560	93.500 - 100.000	3-13/32 x 10-13/32 x 4-29/32	C	Transmitter & Receiver-LD Single Sideband Radio Sys.
98.200	3.200	536K	Bal.	600:600	96.600 - 99.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
100.000	.345	136P	Bal.	900:25	99.825 - 100.170	6-29/32 x 3-13/32 x 4-29/32	C	Broadband Carr. Telephone J-68735 Carr. Supply Ckt.
100.000	.032	218N	Unbal.	50000:50000	99.984 - 100.016	6-29/32 x 3-13/32 x 4-29/32	C	LD & LE Single Sideband Radio Sys.
100.000	12.700	222C	Unbal.	72:72	93.600 - 106.300	16-5/32 x 4-7/8 x 4-29/32	C	LD-R1 Radio Rec.
102.200	3.200	536L	Bal.	600:600	100.600 - 103.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.
103.300	6.500	220E	Bal.	1560:1560	100.100 - 106.600	3-13/32 x 10-13/32 x 4-29/32	C	Transmitter & Receiver-LD Single Sideband Radio Sys.
104.000	.360	136R	Bal.	900:25	103.815 - 104.175	6-29/32 x 3-13/32 x 4-29/32	C	Broadband Carr. Telephone J-68735 Carr. Supply Ckt.
104.005	.050	107F	Bal.	25000:25000	103.980 - 104.030	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-at Terms.
106.200	3.200	536M	Bal.	600:600	104.600 - 107.800	3-13/32 x 2-3/16 x 4-29/32	C	J,K & L Broadband Carr.-Term. Eq.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
107.990	.364	136S	Bal.	900:25	107.805 - 108.170	6-29/32 x 3-13/32 x 4-29/32	C	Broadband Carr. Telephone J-68735 Carr. Supply Ckt.
108.000	18.000	531D	Unbal. Unbal.	135:3000 135:3000	79.000 - 97.000 99.000 - 117.000	3-13/32 x 7-15/32 x 4-3/16	C	OC1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
108.000	18.000	530D	Unbal. Unbal.	135:3000 135:3000	99.000 - 117.000 164.000 - 206.000	3-3/8 x 7-1/2 x 2-1/2	C	OC1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
108.000	18.200	530W	Unbal. Unbal.	135:3000 135:3000	98.800 - 117.000 177.500 - 197.500	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
108.995	.090	107G	Bal.	25000:25000	108.950 - 109.040	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-at Terms.
110.000	106.660	530B	Unbal. Unbal.	135:135 135:135	79.000 - 97.000 99.400 - 116.600	3-3/8 x 7-1/2 x 2-1/2	C	OC1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
111.000	.100	107H	Bal.	25000:25000	110.950 - 111.050	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-at Terms.
119.970	.360	219D	Bal.	600:600	119.785 - 120.145	8-21/32 x 3-13/32 x 4-29/32	C	K Carr.-Gr. Carr. Supply
120.000	1.600	221S	Bal.	20:20	119.200 - 120.800	16-5/32 x 3-13/32 x 4-29/32	C	K Carr.-Gr. Carr. Supply
120.000	3.000	501A	Bal.	125:125	119.850 - 120.150	7-3/4 x 4-15/16 x 3	C	Carr. Supply Filter-K or L Carr.
124.000	18.000	530AF	Unbal. Unbal.	135:3000 135:3000	115.000 - 133.000 167.000 - 208.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
124.000	.160	221H	Bal.	125:125	123.920 - 124.080	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
127.000	17.000	530F	Unbal. Unbal.	135:3000 135:3000	119.000 - 136.000 169.000 - 212.000	3-3/8 x 7-1/2 x 2-1/2	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
128.000	18.000	531E	Unbal. Unbal.	135:3000 135:3000	119.000 - 137.000 139.000 - 157.000	3-13/32 x 7-15/32 x 4-3/16	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
128.000	16.600	530E	Unbal. Unbal.	135:135 135:135	119.600 - 136.200 140.000 - 156.000	3-3/8 x 7-1/2 x 2-1/2	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
128.000	18.600	530Y	Unbal. Unbal.	135:3000 135:3000	118.800 - 137.400 178.000 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
140.000	249.000	225A	Unbal.	72:72	60.000 - 309.000	19 x 10 x 6-31/32	A	L Carr.-Term. supergroup Equip.
143.000	.140	107J	Bal.	100:25000	142.930 - 143.070	4-5/32 x 3-1/4 x 4-29/32	C	J2 Carr. Sys.-Repeater Stations

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BAND PASS FILTERS

MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
148.000	91.000	167S	Unbal.	600:600	103.000 - 194.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
148.000	18.000	531E	Unbal. Unbal.	135:3000 135:3000	119.000 - 137.000 139.000 - 157.000	3-13/32 x 7-15/32 x 4-3/16	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
148.000	16.600	530E	Unbal. Unbal.	135:135 135:135	119.600 - 136.200 140.000 - 156.000	3-3/8 x 7-1/2 x 2-1/2	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
148.000	18.000	530G	Unbal. Unbal.	135:3000 135:3000	139.000 - 157.000 168.000 - 205.000	3-3/8 x 7-1/2 x 2-1/2	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
148.000	18.600	530AA	Unbal. Unbal.	135:3000 135:3000	138.800 - 157.400 178.000 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
155.000	11.000	152A	Unbal.	100:500	149.500 - 160.500	2 x 1-5/8 x 3-1/2	C	Receiving Filters-M1 Carr.
155.000	14.000	154A (h)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	148.000 - 162.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
155.000	14.000	155A (j)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	148.000 - 162.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
155.000	11.000	156A	Unbal.	Operates between Vacuum Tube	149.500 - 160.500	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
155.000	18.000	157A	Unbal.	Vac. Plate:4000 shunted by capacity	146.000 - 164.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
155.000	10.000	158A	Unbal.	Vac. Plate:100	150.000 - 160.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filter-M1 Carr.
167.900	5.900	166A	Unbal.	135:135	165.000 - 170.900	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
170.000	11.000	152B	Unbal.	100:500	164.500 - 175.500	2 x 1-5/8 x 3-1/2	C	Receiving Filters-M1 Carr.
170.000	14.000	154B (h)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	163.000 - 177.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
170.000	14.000	155B (j)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	163.000 - 177.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
170.000	11.000	156B	Unbal.	Operates between Vacuum Tube	164.500 - 175.500	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.

(h) Furnished only in combination with 155-type Filter.
(j) Furnished only in combination with 154-type Filter.

BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CJDE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
170.000	18.000	157B	Unbal.	Vac. Plate:4000 shunted by capacity	161.000 - 179.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
170.000	10.000	158B	Unbal.	Vac. Plate:100	165.000 - 175.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filter-M1 Carr.
172.000	46.000	530M	Unbal.	135:135	151.000 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	OAI Carr.-J-98705AA Group Rec. Unit
176.100	6.200	166B	Unbal.	135:135	173.000 - 179.200	2 x 1-9/16 x 3-7/16	C	M1 Carr.-J-98703F Channel Unit
180.000	320.000	217B	Unbal.	75:75	80.000 - 400.000	5-5/32 x 3-13/32 x 4-29/32	C	L1 Carr.-B2 & C2 Television Term.
182.000	34.000	530P	Unbal. Unbal.	135:3000 135:3000	38.800 - 57.000 166.000 - 200.000	3-3/8 x 7-1/2 x 2-1/2	C	OBI Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
183.000	41.000	530C	Unbal. Unbal.	135:3000 135:3000	79.000 - 97.000 164.000 - 205.000	3-3/8 x 7-1/2 x 2-1/2	C	OBI Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
183.000	33.000	530R	Unbal. Unbal.	135:3000 135:3000	59.000 - 77.000 167.000 - 200.000	3-3/8 x 7-1/2 x 2-1/2	C	OBI Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
184.000	40.000	530AE	Unbal. Unbal.	135:3000 135:3000	82.800 - 101.000 165.000 - 205.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
184.000	1.600	532A	Bal.	64:64	183.920 - 184.080	2 x 1-9/16 x 3-7/16	C	OB Carr.-J-98705E Twin Channel Carr.
184.000	2.520	532D	Unbal.	40:75	183.874 - 184.126	2 x 1-9/16 x 3-7/16	C	ON Carr.-J-98705E Channel Carr. Unit
184.000	42.000	530D	Unbal. Unbal.	135:3000 135:3000	99.000 - 117.000 164.000 - 206.000	3-3/8 x 7-1/2 x 2-1/2	C	OCI Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
184.100	6.200	166C	Unbal.	135:135	181.000 - 187.200	2 x 1-9/16 x 3-7/16	C	M1 Carr.-J-98703F Channel Unit
185.000	11.000	152C	Unbal.	100:500	179.500 - 190.500	2 x 1-5/8 x 3-1/2	C	Receiving Filters-M1 Carr.
185.000	14.000	154C (h)	Unbal.	125:Grid of Tube (Comb of 154 and 155)	178.000 - 192.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
185.000	14.000	155C (j)	Unbal.	125:Grid of Tube (Comb of 154 and 155)	178.000 - 192.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
185.000	11.000	156C	Unbal.	Operates between Vacuum Tube	179.500 - 190.500	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.

(h) Furnished only in combination with 155-type Filter.
(j) Furnished only in combination with 154-type Filter.

BAND PASS FILTER

MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
185.000	18.000	157C	Unbal.	Vac. Plate:4000 shunted by capacity	176.000 - 194.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
185.000	10.000	158C	Unbal.	Vac. Plate:100	180.000 - 190.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filter-M1 Carr.
185.900	3.400	529B	Unbal. Unbal.	75:600 75:600	184.200 - 187.600 188.300 - 191.700	3-23/64 x 2 x 3-1/2	C	O Carr.-J-98705D Term. Equip.
185.900	3.400	529C	Unbal. Unbal.	75:600 75:600	184.200 - 187.600 184.200 - 187.600	3-23/64 x 2 x 3-1/2	C	O Carr.-Servicing Centers
185.900	3.400	529C	Unbal. Unbal.	75:600 75:600	184.200 - 187.600 184.200 - 187.600	3-23/64 x 2 x 3-1/2	C	O Carr.-Servicing Centers
186.000	41.000	530AF	Unbal. Unbal.	135:3000 135:3000	115.000 - 133.000 167.000 - 208.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
186.000	28.000	531F	Unbal. Unbal.	600:700 135:135	19.000 - 37.000 173.000 - 201.000	3-13/32 x 7-15/32 x 4-3/16	C	O A1 Carr.-J-98705AA Group Rec. Unit
186.000	37.000	530G	Unbal. Unbal.	135:3000 135:3000	139.000 - 157.000 168.000 - 205.000	3-3/8 x 7-1/2 x 2-1/2	C	O D1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
187.000	18.000	530S	Unbal. Unbal.	135:3000 135:3000	39.000 - 57.000 178.500 - 196.500	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
187.000	20.000	530W	Unbal. Unbal.	135:3000 135:3000	98.800 - 117.000 177.500 - 197.500	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
187.000	19.000	530Y	Unbal. Unbal.	135:3000 135:3000	118.800 - 137.400 178.000 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
188.000	16.000	530AD	Unbal. Unbal.	135:3000 135:3000	68.000 - 84.000 180.000 - 196.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
188.000	19.600	530J	Unbal. Unbal.	135:135 600:700	178.000 - 197.600 0 - 18.600	3-3/8 x 7-1/2 x 2-1/2	C	O A1 Carr.-J-98705AA Group Rec. Unit
188.000	15.100	529A	Unbal. Unbal.	75:600 75:600	180.600 - 183.700 192.200 - 195.700	3-23/64 x 2 x 3-1/2	C	O Carr.-J-98705D Term. Equip.
188.000	18.500	530T	Unbal. Unbal.	135:3000 135:3000	59.000 - 77.000 178.500 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
188.000	19.000	530U	Unbal. Unbal.	135:3000 135:3000	78.800 - 97.000 178.500 - 197.500	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.
188.000	19.000	530AA	Unbal. Unbal.	135:3000 135:3000	138.800 - 157.400 178.000 - 197.000	3-3/8 x 7-1/2 x 2-1/2	C	ON Carr.-J-98706A & B Junction Equip.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
188.000	16.000	530AB	Unbal. Unbal.	135:3000 135:3000	36.000 - 52.000 180.000 - 196.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
188.000	16.000	530AC	Unbal. Unbal.	135:3000 135:3000	52.000 - 68.000 180.000 - 196.000	3-3/8 x 7-1/2 x 2-1/2	C	ON2 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
189.000	43.000	530F	Unbal. Unbal.	135:3000 135:3000	119.000 - 136.000 169.000 - 212.000	3-3/8 x 7-1/2 x 2-1/2	C	OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
190.000	3.400	529B	Unbal. Unbal.	75:600 75:600	184.200 - 187.600 188.300 - 191.700	3-23/64 x 2 x 3-1/2	C	O Carr.-J-98705D Term. Equip.
191.900	6.400	166D	Unbal.	135:135	188.700 - 195.100	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
192.000	1.600	532B	Bal.	64:64	191.920 - 192.080	2 x 1-9/16 x 3-7/16	C	OB Carr.-J-98705E Twin Channel Carr.
192.000	2.520	532E	Unbal.	40:75	191.874 - 192.126	2 x 1-9/16 x 3-7/16	C	ON Carr.-J-98705E Channel Carr. Unit
193.900	3.500	529A	Unbal. Unbal.	75:600 75:600	180.600 - 183.700 192.200 - 195.700	3-23/64 x 2 x 3-1/2	C	O Carr.-J-98705D Term. Equip.
199.900	6.100	166E	Unbal.	135:135	196.900 - 203.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
200.000	1.600	532C	Bal.	135:135	199.920 - 200.080	2 x 1-9/16 x 3-7/16	C	N Carr. Tel. Sys.-Program Reversing Ckt.
200.000	14.000	154D (h)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	193.000 - 207.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
200.000	14.000	155D (j)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	193.000 - 207.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
200.000	11.000	156D	Unbal.	Operates between Vacuum Tube	194.500 - 205.500	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
200.000	18.000	157D	Unbal.	Vac. Plate:4000 shunted by capacity	191.000 - 209.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
200.000	10.000	158D	Unbal.	Vac. Plate:100	195.000 - 205.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filter-M1 Carr.
200.200	8.400	219N	Unbal.	600:600	196.000 - 204.400	8-21/32 x 3-13/32 x 4-29/32	C	Receiving Detector Filter-L1 Carr.- 46A Trans. Meas. Set
202.500	6.000	152D	Unbal.	100:500	199.500 - 205.500	2 x 1-5/8 x 3-1/2	C	As Receiving Filters-M1 Carr.

(h) Furnished only in combination with 155-type Filter.
(j) Furnished only in combination with 154-type Filter.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
207.900	6.300	166F	Unbal.	135:135	204.800 - 211.100	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
208.000	10.300	166N	Unbal.	135:135	202.900 - 213.200	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703W Channel Units
208.000	6.000	167L	Unbal.	135:135	205.000 - 211.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
215.000	11.000	152E	Unbal.	100:500	209.500 - 220.500	2 x 1-5/8 x 3-1/2	C	Receiving Filters-M1 Carr.
215.000	14.000	154E (h)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	208.000 - 222.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
215.000	14.000	155E (j)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	208.000 - 222.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
215.000	11.000	156E	Unbal.	Operates between Vacuum Tube	209.500 - 220.500	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
215.000	18.000	157E	Unbal.	Vac. Plate:4000 shunted by capacity	206.000 - 224.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
215.000	10.000	158E	Unbal.	Vac. Plate:100	210.000 - 220.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filter-M1 Carr.
215.000	.300	526J	Unbal.	75:75	215.810 - 216.110	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Pilot Supply Ckt.
216.100	5.800	166G	Unbal.	135:135	213.200 - 219.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
223.700	6.000	166H	Unbal.	135:135	220.700 - 226.700	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
230.000	11.000	152F	Unbal.	100:500	224.500 - 235.500	2 x 1-5/8 x 3-1/2	C	Receiving Filters-M1 Carr.
230.000	14.000	154F (h)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	223.000 - 237.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
230.000	14.000	155F (j)	Unbal.	125:Grid of Tube (Comb. of 154 and 155)	223.000 - 237.000	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
230.000	11.000	156F	Unbal.	Operates between Vacuum Tube	224.500 - 235.500	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
230.000	18.000	157F	Unbal.	Vac. Plate:4000 shunted by capacity	221.000 - 239.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.

(h) Furnished only in combination with 155-type Filter.

(j) Furnished only in combination with 154-type Filter.

BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
230.000	10.000	158F	Unbal.	Vac. Plate:100	225.000 - 235.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filter-M1 Carr.
232.000	6.000	166J	Unbal.	135:135	229.000 - 235.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
240.100	5.800	166K	Unbal.	135:135	237.200 - 243.000	2 x 1-7/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
247.600	5.700	166L	Unbal.	135:135	244.800 - 250.500	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
248.200	5.500	167P	Unbal.	135:135	245.500 - 251.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
250.000	236.000	167U	Unbal.	3000:3000	154.000 - 390.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
255.900	6.000	166M	Unbal.	135:135	253.000 - 259.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Unit
264.000	6.000	166P	Unbal.	135:135	261.000 - 267.000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703FA Channel Units
264.102	295.000	161A	Unbal.	100:100	155.000 - 450.000	2 x 1-5/8 x 3-7/16	C	Coupling Filter - M1 Carr.
268.000	.560	108A	Bal.	125:125	267.720 - 268.280	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
280.000	.900	226G	Unbal.	75:40,000	279.550 - 280.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline automatic Sw. Ckt.
282.000	.900	226H	Unbal.	75:40,000	281.550 - 282.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline automatic Sw. Ckt.
284.000	14.100	210AB	Unbal.	75:75	276.600 - 290.700	3-13/32 x 3-13/32 x 4-29/32	C	L3 Multiline automatic Sw. Ckt.
284.000	.900	226J	Unbal.	75:40,000	283.550 - 284.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline automatic Sw. Ckt.
286.000	.900	226K	Unbal.	75:40,000	285.550 - 286.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline automatic Sw. Ckt.
287.000	18.900	210AC	Unbal.	75:75	278.000 - 296.900	3-13/32 x 3-13/32 x 4-29/32	C	L3 Multiline automatic Sw. Ckt.
288.000	.900	226L	Unbal.	75:40,000	287.550 - 288.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline automatic Sw. Ckt.
290.000	12.000	156G	Unbal.	Operates between Vacuum Tube	284.000 - 296.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
290.000	18.000	157G	Unbal.	Vac. Plate:4000 shunted by capacity	281.000 - 299.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
290.000	7.000	159A (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	286.500 - 293.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
290.000	7.000	160A (l)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	286.500 - 293.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.

(k) Furnished only in combination with 160-type Filter.
 (l) Furnished only in combination with 159-type Filter.

BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
290.000	.900	226M	Unbal.	75:40,000	289.550 - 290.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline Automatic Switching Ckt.
294.000	41.000	153A	Unbal.	Plate Vac. Tube :100	274.500 - 315.500	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
295.000	24.000	151A	Unbal.	100:500	283.000 - 307.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
296.000	.900	226N	Unbal.	75:40,000	295.550 - 296.450	1-21/32 x 3-13/32 x 4-29/32	A	L3 Multiline Automatic Switching Ckt.
300.000	12.000	156H	Unbal.	Operates between Vacuum Tube	294.000 - 306.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
300.000	16.000	157H	Unbal.	Vac. Plate:4000 shunted by capacity	292.000 - 308.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
300.000	7.000	159B (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	296.500 - 303.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
300.000	7.000	160B (l)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	296.500 - 303.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
305.000	30.000	525L	Unbal.	75:75	290.000 - 320.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Pilot Supply Ckt. on J-68828S Pilot Stabilising Panel
306.000	.060	108B	Bal.	125:125	305.970 - 306.030	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
307.995	.050	108C	Bal.	125:125	307.970 - 308.020	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
308.000	.600	217M	Unbal.	75:75	307.700 - 308.300	5-5/32 x 3-13/32 x 4-29/32	C	L3 Carr.-Pilot pass branch in master- group & supergroup blocking
308.000	.600	522H	Unbal.	21,500:21,500	307.700 - 308.300	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
308.100	.600	522K	Unbal.	21,500:21,500	307.800 - 308.400	1-11/16 x 6-29/32 x 3-1/2	C	J-68828E Synchronizing Carr. Amplifier
310.000	20.000	505G	Unbal.	3V4 Vac. Tube :2000	300.000 - 320.000	1-7/16 x 1-7/16 x 2-11/16	C	54A Oscillator-L1 Carr.
316.030	.450	108D	Bal.	125:125	315.800 - 316.250	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
320.000	12.000	156J	Unbal.	Operates between Vacuum Tube	314.000 - 326.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.

(k) Furnished only in combination with 160-type Filter.
 (l) Furnished only in combination with 159-type Filter.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
320.000	18.000	157J	Unbal.	Vac. Plate:4000 shunted by capacity	311.000 - 229.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
320.000	7.000	159C (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	316.500 - 323.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
320.000	7.000	160C (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	316.500 - 323.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
324.000	41.000	153B	Unbal.	Plate Vac. Tube :100	304.500 - 345.500	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
325.000	24.000	151B	Unbal.	100:500	313.000 - 337.000	2 x 1-5/8 x 3-1/2	C	As Transmitting filters-M1 Carr.
330.000	12.000	156K	Unbal.	Operates between Vacuum Tube	324.000 - 336.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
330.000	16.000	157K	Unbal.	Vac. Plate:4000 shunted by capacity	322.000 - 338.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
330.000	7.000	159D (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	326.500 - 333.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
330.000	7.000	160D (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	326.500 - 333.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
334.000	76.000	223A	Unbal.	72:72	298.000 - 374.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Group band #1
340.000	.060	108E	Bal.	125:125	339.970 - 340.030	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
350.000	12.000	156L	Unbal.	Operates between Vacuum Tube	344.000 - 356.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
350.000	18.000	157L	Unbal.	Vac. Plate:4000 shunted by capacity	341.000 - 359.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
350.000	7.000	159E (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	346.500 - 353.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
350.000	7.000	160E (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	346.500 - 353.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.

(k) Furnished only in combination with 160-type Filter
(j) Furnished only in combination with 159-type Filter

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
354.000	41.000	153G	Unbal.	Plate Vac. Tube :100	334.500 - 375.500	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
355.000	24.000	151C	Unbal.	100:500	343.000 - 367.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
360.000	12.000	156M	Unbal.	Operates between Vacuum Tube	354.000 - 366.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
360.000	16.000	157M	Unbal.	Vac. Plate:4000 shunted by capacity	352.000 - 368.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
360.000	7.000	159F (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	356.500 - 363.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
360.000	7.000	160F (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	356.500 - 363.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
364.010	.560	108F	Bal.	125:125	363.730 - 364.290	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
380.000	12.000	156N	Unbal.	Operates between Vacuum Tube	374.000 - 386.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
380.000	18.000	157N	Unbal.	Vac. Plate:4000 shunted by capacity	371.000 - 389.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
380.000	7.000	159G (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	376.500 - 383.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
380.000	7.000	160G (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	376.500 - 383.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
383.000	74.000	223B	Unbal.	72:72	348.000 - 422.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Group Band #2
384.000	41.000	153D	Unbal.	Plate Vac. Tube :100	364.500 - 405.500	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
385.000	24.000	151D	Unbal.	100:500	373.000 - 397.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
390.000	12.000	156P	Unbal.	Operates between Vacuum Tube	384.000 - 396.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.

(k) Furnished only in combination with 160-type Filter.

(j) Furnished only in combination with 159-type Filter.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
390.000	16.000	157F	Unbal.	Vac. Plate:4000 shunted by capacity	382.000 - 398.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
390.000	7.000	159H (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	386.500 - 393.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
390.000	7.000	160H (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	386.500 - 393.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
400.000	405.000	212A	Unbal.	72:72	250.000 - 655.000	6-29/32 x 3-13/32 x 4-29/32	C	L Carr. Sys.-Supergroup Connector
410.000	12.000	156R	Unbal.	Operates between Vacuum Tube	404.000 - 416.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
410.000	18.000	157R	Unbal.	Vac. Plate:4000 shunted by capacity	401.000 - 419.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
410.000	7.000	159J (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	406.500 - 413.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
410.000	7.000	160J (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	406.500 - 413.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
414.000	41.000	153E	Unbal.	Plate Vac. Tube :100	394.500 - 435.500	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
415.000	24.000	151E	Unbal.	100:500	403.000 - 427.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
419.500	8.000	221A	Bal.	125:125	415.500 - 423.500	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Carr. Supply
420.000	12.000	156S	Unbal.	Operates between Vacuum Tube	414.000 - 426.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
420.000	16.000	157S	Unbal.	Vac. Plate:4000 shunted by capacity	412.000 - 428.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
420.000	7.000	159K (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	416.500 - 423.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
420.000	7.000	160K (j)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	416.500 - 423.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.

(k) Furnished only in combination with 160-type Filter.
(j) Furnished only in combination with 159-type Filter.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
426.000	66.000	224C	Unbal.	125:125	394.000 - 460.000	19 x 10 x 5-7/32	A	Between modulators & demodulators in J2 Open Wire Carr.
433.000	72.000	223C	Unbal.	72:72	398.000 - 470.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Group Band #3
440.000	12.000	156T	Unbal.	Operates between Vacuum Tube	434.000 - 446.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
440.000	18.000	157T	Unbal.	Vac. Plate:4000 shunted by capacity	431.000 - 449.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
440.000	7.000	159L (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	436.500 - 443.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
440.000	7.000	160L (l)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	436.500 - 443.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
445.000	24.000	151F	Unbal.	100:500	433.000 - 457.000	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
445.000	41.000	153F	Unbal.	Plate Vac. Tube :100	424.500 - 465.500	2 x 1-5/8 x 3-1/2	C	Transmitting Filters-M1 Carr.
450.000	12.000	156U	Unbal.	Operates between Vacuum Tube	444.000 - 456.000	2 x 1-5/8 x 3-1/2	C	Receiving Interstage Filter-M1 Carr.
450.000	16.000	157U	Unbal.	Vac. Plate:4000 shunted by capacity	442.000 - 458.000	2 x 1-5/8 x 3-1/2	C	Output Receiving Filter-M1 Carr.
450.000	7.000	159M (k)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	446.500 - 453.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
450.000	7.000	160M (l)	Unbal.	125:Grid of Tube (Comb. of 159 and 160)	446.500 - 453.500	2 x 1-9/16 x 3-1/2	C	Input Receiving Filter-M1 Carr.
467.700	7.800	221B	Bal.	125:125	463.800 - 471.600	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Carr. Supply
481.000	76.000	223D	Unbal.	72:72	444.000 - 520.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Group Band #4
483.980	.760	108G	Bal.	125:125	483.600 - 484.360	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
515.990	.540	526E	Unbal.	75:75	515.720 - 516.260	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Carr. & Pilot Supply

(k) Furnished only in combination with 160-type Filter.

(l) Furnished only in combination with 159-type Filter.

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
519.990	.540	526F	Unbal.	75:75	519.720 - 520.260	5-3/6 x 3-13/32 x 4-29/32	C	L3 Carr.-Carr. & Pilot Supply
520.000	6.000	535A	Unbal.	75:75	519.700 - 520.300	5-5/32 x 3-13/32 x 5-3/8	C	L3 Carr.-37A Trans. Meas. Set
525.500	7.500	221C	Bal.	125:125	511.800 - 519.300	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Carr. Supply
529.000	72.000	223E	Unbal.	72:72	494.000 - 566.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Group Band #5
541.040	.625	108H	Bal.	125:125	540.725 - 541.350	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
543.040	.625	108J	Bal.	125:125	542.725 - 543.350	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
547.960	.720	108K	Bal.	125:125	547.600 - 548.320	16 x 3-11/32 x 4-3/8	C	J2 Carr. Sys.-Carr. Supply Ckt.
550.000	125.000	525T	Unbal.	75:75	495.000 - 620.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-J-64828S Pilot Stabilizing Panel
555.000	40.000	220B	Unbal.	72:72	535.500 - 575.500	3-13/32 x 10-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Sys.
555.980	.650	222B	Unbal.	72:72	555.540 - 556.300	16-5/32 x 4-7/8 x 4-29/32	C	L Carr. Tel. Sys.-Supergroup Blocking
555.990	.540	526G	Unbal.	75:75	555.720 - 456.260	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Carr. & Pilot Supply
556.000	.600	217N	Unbal.	75:75	555.700 - 556.300	5-5/32 x 3-13/32 x 4-29/32	C	L3 Carr.-Pilot pass branch in master-group & supergroup blocking
556.090	.720	522A	Unbal.	75:15,000	555.730 - 556.450	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
563.300	7.600	221D	Bal.	125:125	559.500 - 567.100	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Carr. Supply
611.500	8.100	221E	Bal.	125:125	607.500 - 615.600	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Carr. Supply
619.000	72.000	221J	Unbal.	72:72	584.000 - 656.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
620.000	20.000	210A	Unbal.	72:72	610.000 - 630.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
690.000	299.300	225B	Unbal.	75:75	555.700 - 855.000	19 x 10 x 6-31/32	A	L Carr.-Term. supergroup equip.
699.000	60.000	525E	Unbal.	75:75	670.000 - 730.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Pilot Supply Ckt.
892.000	24.000	218L	Unbal. Unbal.	75:75 75:75	880.000 - 904.000 1080.000 - 1104.000	6-29/32 x 3-13/32 x 4-29/32	C	J-64046 Trans. Meas. Set-L1 Carr.
930.000	390.000	223F	Unbal.	72:72	755.000 - 1145.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Super group Band #4

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BAND PASS FILTERS

MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
1055.000	40.000	505H	Unbal.	3V4 Vac. Tube :2000	1035.000 - 1075.000	1-7/16 x 1-7/16 x 2-11/16	C	54A Oscillator-L1 Carr.
1092.000	24.000	218L	Unbal. Unbal.	75:75 75:75	880.000 - 904.000 1080.000 - 1104.000	6-29/32 x 3-13/32 x 4-29/32	C	J-64046 Trans. Meas. Set-L1 Carr.
1116.000	60.000	210B	Unbal.	72:72	1086.000 - 1146.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
1117.000	68.000	221K	Unbal.	72:72	1084.000 - 1152.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
1180.000	385.000	223G	Unbal.	72:72	1000.000 - 1385.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Super group band #5
1203.000	110.000	525A	Unbal.	75:75	1150.000 - 1260.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Pilot Supply Ckt.
1230.000	440.000	513G	Unbal.	Vac. Plate: Germanium Mod.	1030.000 - 1470.000	1-3/4 x 1-3/4 x 3-9/16	C	LE Single Sideband Radio Sys.
1250.000	126.000	513D	Unbal.	Vac. Plate:72	1190.000 - 1316.000	1-3/4 x 1-3/4 x 3-9/16	C	LE Single Sideband Radio Sys.
1250.000	60.000	513E	Unbal.	Vac. Plate: Vac. Tube Grid	1220.000 - 1280.000	1-3/4 x 1-3/4 x 3-9/16	C	LE Single Sideband Radio Sys.
1364.000	60.000	210C	Unbal.	72:72	1334.000 - 1394.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
1367.000	75.000	221L	Unbal.	72:72	1330.000 - 1405.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
1430.000	375.000	223H	Unbal.	72:72	1250.000 - 1625.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Super group band #6
1612.000	60.000	210D	Unbal.	72:72	1582.000 - 1642.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
1616.000	82.000	221M	Unbal.	72:72	1576.000 - 1658.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Circuit
1670.000	360.000	223J	Unbal.	72:72	1500.000 - 1860.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Super group band #7
1799.000	.345	510A (m)	Unbal.	37.5:75	1798.825 - 1799.170	3-19/32 x 3-13/32 x 4-19/32	C	Measurement of modulation of repeaters-L1 Carr.-54A Oscillator & 33A Transmission Meas. Set
1860.000	60.000	210E	Unbal.	72:72	1830.000 - 1890.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
1863.000	82.000	221N	Unbal.	72:72	1822.000 - 1904.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.

(m) Portable

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
1910.000	400.000	223K	Unbal.	72:72	1725.000 - 2125.000	19 x 10 x 3-15/32	A	L Carr. Tel. Sys.-Super group band #8
2050.000	720.000	525U	Unbal.	75:75	1720.000 - 2440.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-J-6#828R Pilot Stabilizing - Panel
2060.000	275.000	221F	Unbal.	72:72	1925.000 - 2200.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
2063.500	3.000	560A	Unbal.	75:75	2062.000 - 2065.000	10-5/32 x 3-25/64 x 4-7/8	C	L3 Carr.-Pilot Pass Branch
2064.000	.200	522B	Unbal.	75:25,000	2063.900 - 2064.100	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
2080.000	130.000	525B	Unbal.	75:75	2020.000 - 2150.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Pilot Supply Ckt.
2083.000	85.000	505J	Unbal.	403B Vac. Tube :2000	2041.000 - 2126.000	1-7/16 x 1-7/16 x 2-11/16	C	55B Oscillator-L3 Carr.
2108.000	60.000	210F	Unbal.	72:72	2078.000 - 2138.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
2112.000	80.000	221P	Unbal.	72:72	2072.000 - 2152.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
2290.000	36.000	221Y	Unbal.	75:75	2120.000 - 2420.000	16-5/32 x 3-13/32 x 4-29/32	C	L1 Carr.-#9 Supergroup band
2355.000	78.000	221M	Unbal.	72:72	2316.000 - 2394.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
2356.000	60.000	210G	Unbal.	72:72	2326.000 - 2386.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply
2500.000	1220.000	525F	Unbal.	75:75	2000.000 - 3220.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Master Group Term.
2580.000	295.000	513F	Unbal.	Vac. Plate: Germanium Mod.	2435.000 - 2730.000	1-3/4 x 1-3/4 x 3-9/16	C	LE Single Sideband Radio Sys.
2670.000	360.000	221AA	Unbal.	75:75	2500.000 - 2860.000	10-5/32 x 3-13/32 x 4-29/32	C	L1 Carr.-#10 Supergroup band
2680.000	820.00	557C	Unbal.	75:75	2300.000 - 3120.000	19 x 9-7/8 x 3-1/8	C	L1 Carr.-J-68802AJ Rec. Color Unit-C3 Television Terminal
2799.000	70.000	226E	Unbal.	70,000:50,000	2764.000 - 2834.000	1-21/32 x 3-13/32 x 4-29/32	A	LD Radio Transmitter & Receiver
2799.000	67.000	226F	Unbal.	70,000:50,000	2766.000 - 2833.000	1-21/32 x 3-13/32 x 4-29/32	A	LD Radio Transmitter & Receiver
2800.000	124.000	513A	Unbal.	Vac. Plate:72	2740.000 - 2864.000	1-3/4 x 1-3/4 x 3-9/16	C	LE & LD Single Sideband Radio Sys.
2800.000	60.000	513B	Unbal.	Vac. Plate: Vac. Tube Grid	2770.000 - 2830.000	1-3/4 x 1-3/4 x 3-9/16	C	LE Single Sideband Radio Sys.
3096.000	2.000	560B	Unbal.	75:75	3095.000 - 3097.000	10-5/32 x 3-25/64 x 4-7/8	C	L3 Carr.-Pilot Pass Branch

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
3096.000	1.200	522C	Unbal.	75:25,000	3095.400 - 3096.600	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
3096.000	1.200	522F	Unbal.	75:415	3095.400 - 3096.600	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
3100.000	90.000	210Y	Unbal.	75:75	3055.000 - 3145.000	3-13/32 x 3-13/32 x 4-29/32	C	L Coaxial Conductor Carr. Auxiliary Carr. Supply-#10 Supergroup Term.
3100.000	70.000	221U	Unbal.	75:75	3065.000 - 3135.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Supergroup Channel Carr. Supply
3110.000	400.000	525W	Unbal.	75:75	2920.000 - 3320.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-J-68828R Pilot Stabilising Panel
3130.000	375.000	221G	Unbal.	72:72	2950.000 - 3325.000	16-5/32 x 3-13/32 x 4-29/32	C	L Carr.-Pilot Supply Ckt.
3150.000	214.000	505K	Unbal.	403B Vac. Tube :2000	3046.000 - 3260.000	1-7/16 x 1-7/16 x 2-11/16	C	55B Oscillator-L3 Carr.
3579.500	1.410	522J	Unbal.	75:75	3578.785 - 3580.195	1-11/16 x 6-29/32 x 3-1/2	C	Receiving Unit-47A Trans. Meas. Sys.
3599.000	38.000	505D	Unbal.	Vac. Plate: Vac. Grid	3580.000 - 3618.000	1-7/16 x 1-7/16 x 2-11/16	C	33A Trans. Meas. Set-L1 Carr.
3600.000	10.000	220C	Unbal.	14500:14500	3595.000 - 3605.000	3-13/32 x 10-13/32 x 4-29/32	C	44A Trans. Meas. Set-L1 Carr.
3600.000	1740.000	226T	Unbal.	75:1100	2820.000 - 4560.000	1-21/32 x 3-13/32 x 4-29/32	A	J-68802AD Input Bridging Ampl. & J-68802AF High Freq. Ampl.-L1 Carr.
3600.000	44.000	505C	Unbal.	Vac. Plate: Vac. Grid	3578.000 - 3622.000	1-7/16 x 1-7/16 x 2-11/16	C	33A Trans. Meas. Set-L1 Carr.
3602.000	56.000	505E	Unbal.	Vac. Plate: Vac. Grid	3574.000 - 3630.000	1-7/16 x 1-7/16 x 2-11/16	C	33A Trans. Meas. Set-L1 Carr.
3840.000	400.000	534A	Unbal.	75:75	3660.000 - 4060.000	5-5/32 x 3-13/32 x 3-31/64	C	L3 Carr.-37A Trans. Meas. Set
4138.000	44.000	525N	Unbal.	75:75	4116.000 - 4160.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Std. Carr. Freq. Modulator
4300.000	3320.000	526K	Unbal.	75:75	2910.000 - 6230.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Master Group 2
4500.000	7500.000	225J	Unbal.	75:75	2100.000 - 9600.000	19 x 10 x 6-31/32	A	L3 Carr.-Blocking Filter of Supergroups 12 to 18 resp.
5600.000	6960.000	225G	Unbal.	75:75	3140.000 - 10000.000	19 x 10 x 6-31/32	A	L3 Carr.-Blocking Filter of Master Group 1

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BAND PASS FILTERS								
MID-BAND FREQ. KC	BAND WIDTH KC	CODE	BAL/ UNBAL.	IMPEDANCE	3DB CUT-OFF IN KC	SIZE	MTG. FIG.	WHERE USED
7260.000	470.000	525C ✓	Unbal.	75:75	7030.000 - 7500.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Pilot Supply Ckt.
7266.000	3.200	522D ✓	Unbal.	75:25,000	7264.400 - 7267.600	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
7266.000	3.200	522G ✓	Unbal.	75:75	7264.400 - 7267.600	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
7300.000	4000.000	526L ✓	Unbal.	75:75	5550.000 - 9550.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Master Group 3
8320.000	4.000	522E ✓	Unbal.	75:25,000	8318.000 - 8322.000	1-11/16 x 6-29/32 x 3-1/2	C	L3 Coaxial Tel. Sys.
8340.000	800.000	525D ✓	Unbal.	75:75	7950.000 - 8750.000	3-7/16 x 3-13/32 x 4-29/32	C	L3 Pilot Supply Ckt.
8440.000	300.000	549B ✓	Unbal.	75:75	8295.000 - 8595.000	1-21/32 x 3-13/32 x 4-29/32	C	TD-2 Radio-Automatic Switching Ckt.
8740.000	900.000	548A ✓	Unbal.	600:2400	8300.000 - 9200.000	1-9/16 x 1-29/32 x 1-3/4	C	TD-2 Radio-Automatic Switching Ckt.
8810.000	310.000	549A ✓	Unbal.	75:75	8660.000 - 8970.000	1-21/32 x 3-13/32 x 4-29/32	C	TD-2 Radio-Automatic Switching Ckt.
11100.000	3000.000	526H ✓	Unbal.	75:75	9700.000 - 12,700.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Master Group Term.
13000.000	408.000	541A ✓	Unbal.	75:10	12,760.000 - 13,240.000	1-17/32 x 1-17/32 x 2-5/64	C	L3 Carr.-Auxiliary Carr. Supply
13000.000	285.000	526A ✓	Unbal.	75:75	12,860.000 - 13,145.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Group Carr. Supply Ckt.
14000.000	1000.000	541B ✓	Unbal.	75:10	13,550.000 - 14,550.000	1-17/32 x 1-17/32 x 2-5/64	C	L3 Carr.-Auxiliary Carr. Supply
14050.000	290.000	526B ✓	Unbal.	75:75	13,910.000 - 14,200.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Group Carr. Supply Ckt.
15600.000	290.000	526C ✓	Unbal.	75:75	15,460.000 - 15,750.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Group Carr. Supply Ckt.
15700.000	1150.000	541C ✓	Unbal.	75:10	15,150.000 - 16,300.000	1-17/32 x 1-17/32 x 2-5/64	C	L3 Carr.-Auxiliary Carr. Supply
16500.000	2300.000	533A ✓	Unbal.	75:75	15,350.000 - 17,650.000	5-5/32 x 3-13/32 x 3-31/64	C	L3 Carr.-37A Trans. Meas. Set
18200.000	2000.000	541D ✓	Unbal.	75:10	17,200.000 - 19,200.000	1-17/32 x 1-17/32 x 2-5/64	C	L3 Carr.-Auxiliary Carr. Supply
18200.000	240.000	526D ✓	Unbal.	75:75	18,080.000 - 18,320.000	5-3/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Group Carr. Supply Ckt.
151600.000	2750.000	552A ✓	Unbal.	50:50	150,200.000 - 152,950.000	2-1/4 x 4-13/16 x 9-1/2	C	J-41630 Mobile Radio Tel. Equip. for Civil Defense

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HIGH PASS
FILTERS

III



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HIGH PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL. UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
.600	128E	Bal.	635:635	3-3/8 x 1-1/2 x 4-29/32	C	AC Key Pulsing Rec.-No. 4 Crossbar Toll Office
2.350	563B	Unbal.	600:600	8-3/4 x 3-3/8 x 4-13/16	C	A2 Channel Shifter Panels-RTTS in J-68325
5.200	96A	Bal.	605:605	4-5/16 x 1-11/16 x 4-13/32	C	C5 Carr. Term. & C1 Carr. Repeaters Modified for 2B pilot channel
9.100	65A	Bal.	565:605	19 x 12-15/16 x 6-31/32	A	In 8000 cps. open-wire program transm. circuits, Line Filter
12.000	131A	Unbal.	600:600	3-13/32 x 1-11/16 x 4-13/32	C	K Cable Carrier-Pilot Channel Regulator
16.750	42A	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
17.000	530L (n)	Unbal. Unbal.	700:600 600:600	3-3/8 x 7-1/2 x 2-1/2	C	OAl Carr.-J-98705AC Repeater Amplifier Unit
17.000	42B	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
18.500	42E	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
19.000	42F	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
22.000	211C	Unbal.	2000:2000	5-5/32 x 3-13/32 x 4-29/32	C	L3 Carr. & J-68831A Visual Gain & Delay Meas. Set
55.000	200A	Unbal.	125:125	3-3/8 x 1-1/2 x 4-29/32	C	L Carr.
57.800	127A	Bal.	600:600	6-15/16 x 3-7/16 x 4-3/8	C	J & K Carr. Sys.-Interconnection
74.000	114A	Unbal.	125:125	4-5/16 x 3-7/16 x 4-3/4	C	J2 Carr. Sys.-Second group modulator
76.000	123A	Bal.	135:135	4-3/16 x 3-1/4 x 4-1/4	C	K Cable Carrier-42A Trans. Meas. Set
89.000	113A	Bal.	125:125	15 x 3-3/8 x 4-13/16	C	J2 Carr. Sys.-at repeaters & west receiving terms.
103.000	167T	Unbal.	600:600	2 x 1-9/16 x 3-7/16	C	N1 Carr.

(n) Also Band Pass with Impedance of 700:600 and Mid-Band Freq. of 26.000 KC.

III-1

HIGH PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
153.000	167A	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
165.000	168K	Unbal.	75:75	2 x 1-9/16 x 3-7/16	C	TD-2 Radio Sys.-J-68836B Video Visual Test Set Rec.
310.900	224A	Unbal.	75:75	19 x 10 x 5-7/32	A	L Carr.-Supergroup Connector
430.000	556A (ay)	Bal. Unbal.	124:124 75:75	19 x 9-7/8 x 10-3/16	C	L3 Carr.-J-44104A Television Term.
450.000	504A (p)	Unbal.	75:75	5-21/32 x 1-17/32 x 2-23/32	C	33A Trans. Meas. Set-L1 Carr.
561.800	225E	Unbal.	72:72	19 x 10 x 6-31/32	A	L Carr.-Blocking Equip.
2140.000	557B	Unbal.	75:75	19 x 9-7/8 x 3-1/8	C	L1 Carr.-J-68802AH Transmitting Color Unit-B3 Television Term.
5050.000	555B	Unbal.	75:75	3-7/16 x 1-11/16 x 4-29/32	C	L3 Carr.-J-68835A Amplifier & Regulator Test Ckt.

(ay) Also Low Pass with Impedance of 124:124
and 3 DB Cut-Off in KC of 425.000.

(p) Auxiliary portable filter

LOW PASS
FILTERS

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LOW PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
.008	207D	Unbal.	1000:1000	6-7/8 x 3-13/32 x 4-29/32	C	No. 1 & 5 Crossbar Tel. Office J-93017K Line Insulation Test Set
.025	207E	Unbal.	1000:1000	6-7/8 x 3-13/32 x 4-29/32	C	No. 1 & 5 Crossbar Tel. Office J-93017K Line Insulation Test Set
.060	80A (q)	Unbal.	25:25	1-5/16 x 1-1/16 x 3	C	Teletypewriter equip.-15 type Perforator Transmitter
.060	80B (q)	Unbal.	25:25	1-5/16 x 1-1/16 x 3	C	Teletypewriter equip.-14 & 20 type Transmitter Distributors
.060	88A	Unbal.	25	2-11/16 x 1 x 2-1/2	C	Teletypewriter Sub Set-Noise Supp. with sending & receiving relays
.060	88C	Unbal.	400	2-11/16 x 1-1/2 x 2-1/2	C	Teletypewriter Sub Set-Noise Supp. with relays in switchboard apparatus
.060	144A (r)	Bal.	50:50	2-11/16 x 2-9/16 x 1-7/16	C	In AC Power Supply Lines for 131A1 & 131B1 Teletypewriter Subscriber Sets
.060	145A (s)	Bal.	50:50	1-13/16 x 1-7/16 x 2-9/16	C	In AC Power Supply Lines for 131A1 & 131B1 Teletypewriter Subscriber Sets
.060	200C	Unbal.	3000:3000	3-3/8 x 1-1/2 x 4-29/32	C	L Carr.
.060	122A	Unbal.	50:50	4-1/4 x 1-13/16 x 4-1/4	C	Teletypewriter Apparatus-Noise Suppression
.070	115A (t)	Bal:Unbal. Bal:Unbal.	300:600 300:1200	19 x 10 x 5-7/32	A	J2 Carr. Sys.-In alarm Ckt.
.102	515A	Unbal.	75:75	2-5/16 x 2-1/16 x 6-3/4	C	J-68333A Test Bench Eq.-TD-2 Radio Sys.
.440	200T	Unbal.	2000:2000	3-3/8 x 1-1/2 x 4-29/32	C	L3 Carr.-J-68837A Cosine Equaliser Adjusting Set
.500	200N	Unbal.	10000:10000	3-3/8 x 1-1/2 x 4-29/32	C	G1 Control & Alarm Sys.-TD-2 Radio
.600	201E	Unbal.	1800:1800	5-1/8 x 1-1/2 x 4-29/32	C	Receiving Ckt.-71A1 Level Compensator
.700	200U	Unbal.	2000:2000	3-3/8 x 1-1/2 x 4-29/32	C	L3 Carr.-J-68837A Cosine Equaliser Adjusting Set

(q) Supp. 200KC to 6MC by approx. 50db.

(r) Similar to 122A Filter less box.

(s) Similar to 122A and 144A Filters.

(t) Has a balancing network.

T-1A1

LOW PASS FILTERS

3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
1.760	208A (e,u)	Bal. Bal. Bal.	600:600 600:600 600:600	8-5/8 x 3-13/32 x 5	C	J-68640 Two-channel bank-Type EB
1.760	208B (f,u)	Bal. Bal. Bal.	600:600 600:600 600:600	8-5/8 x 3-13/32 x 5	C	J-68640 Two-channel bank-Type EB
1.780	208B (f,u)	Bal. Bal. Bal.	600:600 600:600 600:600	8-5/8 x 3-13/32 x 5	C	J-68640 Two-channel bank-Type EB
1.800	208A (e,u)	Bal. Bal. Bal.	600:600 600:600 600:600	8-5/8 x 3-13/32 x 5	C	J-68640 Two-channel bank-Type EB
2.300	205A	Unbal. Unbal.	600:600 600:600	3-3/8 x 3-13/32 x 4-29/32	C	L Carr.-45A Trans. Meas. Set
2.400	128B	Bal.	600:600	3-3/8 x 1-1/2 x 4-29/32	C	Telephone Repeaters
2.400	129A	Bal.	Subsc. Set:300	3-13/32 x 3-7/16 x 4-3/16	C	Dropping off voice freq. circuit-0 Carr. Bridging Filter
2.450	13B	Unbal.	6000:6000	4-11/16 x 3-3/16 x 3-11/32	C	In 16 & 19 gauge H-172-63 side ckts.-2x Type Repeaters
2.600	502A (v)	Bal.	600:600	2-11/32 x 1-19/32 x 3-1/2	C	Linesman's Portable Test Set-Voice Freq. Bridging Filter
2.650	13C	Unbal.	6000:6000	4-11/16 x 3-3/16 x 3-11/32	C	In 16 & 19 gauge H-172-63 phantom circuits & open wire circuits 22 Type Repeaters
2.700	32C	Bal.	600:600	8-11/16 x 4-1/8 x 5-7/16	C	Telephone Repeater Sys.
2.700	87A	Unbal.	400:40	1-17/32 x 5-9/16 x 5-13/16	C	H Carr. Tel. Sys.
2.75	547B (ap)	Bal.	600:600	3-13/32 x 1-11/16 x 4-13/32	C	C & J Carr. Tel. Sys.-Voice Repeaters
2.800	90B	Unbal.	600:600	4-5/16 x 2-9/16 x 4-3/8	C	C5 Carr. Sys.
2.800	130A	Unbal.	600:600	6-15/16 x 1-5/8 x 4-13/32	C	B3 Privacy Sys.
2.800	516A	Unbal.	600:600	3-7/16 x 3-7/16 x 4-3/8	C	A3 Privacy Sys.
2.850	128C	Bal.	600:600	3-3/8 x 1-1/2 x 4-29/32	C	Telephone Repeaters

(e) One filter acts as a modulator filter.

(f) One filter acts as a demodulator filter.

(u) Also Band Pass with Mid-Band Freq. of 2.800 KC.

(v) Forms part of Nos. 86A and 87B Test Sets.

(ap) Designed to balance the 520B Filter from
.25-2.750 KC.

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LOW PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
2.900	209B	Unbal.	600:600	10-3/8 x 3-13/32 x 4-29/32	C	J-68334A B1 Channel Shifter Panel-LD Radio
2.940	90A	Unbal.	600:600	4-5/16 x 2-9/16 x 4-3/8	C	C5 Carr. Sys.
3.000	115A (t)	Bal:Unbal. Bal:Unbal.	300:600 300:1200	19 x 10 x 5-7/32	A	J2 Carr. Sys.-In alarm ckt.
3.000	133A (w)	Bal.	630:630	8-15/32 x 4-11/16 x 12-1/2	B	Dropping off the voice freq. ckt. from open wire line C, D, G, or H Carrier
3.000	134A	Bal.	630:630	7-13/16 x 5-19/32 x 4-5/32	C	133A filter for C,D,G or H carr.
3.000	207B	Unbal.	600:600	6-7/8 x 3-13/32 x 4-29/32	C	Single Side-band Radio Tel. Ckt.
3.100	130B	Unbal.	600:600	6-15/16 x 1-5/8 x 4-13/32	C	B3 Privacy Sys.
3.100	201H	Bal.	600:600	5-1/8 x 1-1/2 x 4-29/32	C	P Carr.-J-98707B Office Term. Equip.
3.200	168F	Unbal.	300:4500	2 x 1-9/16 x 3-7/16	C	Obl Carr. Tel. Sys. J-98705D Transmitting Channel Units
3.258	513C	Unbal.	100,000:100,000	1-3/4 x 1-3/4 x 3-9/16	C	LE Single Sideband Radio Sys.
3.300	168B	Unbal.	10000:10000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Units
3.360	168G	Unbal.	10000:10000	2 x 1-9/16 x 3-7/16	C	Obl Carr. Tel. Sys.-J-98705D Receiving Channel Units
3.400	84A (x,y)	Bal. Bal. Unbal.	1600:1600 1600:1600 600:600	4-3/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys.
3.400	84B (y)	Bal. Bal. Unbal.	1600:1600 1600:1600 600:600	4-3/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys.
3.400	206A (x,y)	Bal. Bal. Unbal.	1000:1000 1000:1000 600:600	5-1/8 x 3-13/32 x 5	C	H Carr.
3.400	206B (y)	Bal. Bal. Unbal.	1000:1000 1000:1000 600:600	5-1/8 x 3-13/32 x 5	C	H Carr.
3.450	128A	Bal.	600:600	3-3/8 x 1-1/2 x 4-29/32	C	Telephone Repeaters

(t) Has a balancing network.

(w) Pole mounted 134A Filter.

(x) Unbal. section is Band Pass Filter of 8.900KC
Mid-Band Freq.

(y) Suppresses harmonics and unwanted sidebands.

IT-3

LOW PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
3.500	13E	Unbal.	2300:2300	4-11/16 x 3-3/16 x 4-7/8	C	22 Type Repeaters
3.600	168A	Unbal.	300:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703F Channel Units
3.600	168E	Unbal.	10000:10000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703T Channel Units
3.660	168L	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N & O Carr.-J-98703AM & J-98705AP Channel Units
3.760	168D	Unbal.	300:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.-J-98703T Channel Units
4.000	84A (x,y)	Bal. Bal. Unbal.	1600:1600 1600:1600 600:600	4-3/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys.
4.000	84B (y)	Bal. Bal. Unbal.	1600:1600 1600:1600 600:600	4-3/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys.
4.000	206A (x,y)	Bal. Bal. Unbal.	1000:1000 1000:1000 600:600	5-1/8 x 3-13/32 x 5	C	H Carr.
4.000	206B (y)	Bal. Bal. Unbal.	1000:1000 1000:1000 600:600	5-1/8 x 3-13/32 x 5	C	H Carr.
4.500	117A	Unbal.	600:600	1-11/16 x 3-9/32 x 3-7/16	C	C2 Voice Operated Control Term.
4.500	205A	Unbal. Unbal.	600:600 600:600	3-3/8 x 3-13/32 x 4-29/32	C	L Carr.-45A Trans. Meas. Set
4.700	72A (z)	Bal. Bal. Bal.	600:690 690:690 600:690	8-17/32 x 3-9/32 x 4-5/16	C	G1 Carr. Tel. Sys.-J-68737 Used in East Term.
4.700	72B (z,aq,	Bal. Bal. Bal.	600:690 690:690 600:690	8-17/32 x 3-9/32 x 4-5/16	C	G1 Carr. Tel. Sys.-J-68737 Used in West Term.
5.000	547A (ar)	Bal.	600:600	3-13/32 x 1-11/16 x 4-13/32	C	C & J Carr. Tel. Sys.-Voice Repeaters
5.100	563A	Unbal.	600:600	2-3/4 x 3-3/8 x 4-13/16	C	A2 Channel Shifter Panels-RTTS in J-68325
5.300	69B	Bal.	600:600	6-29/32 x 1-11/16 x 4-13/32	C	auxiliary filter in program trans. ckts.
5.700	207C	Bal.	600:600	6-7/8 x 3-13/32 x 4-29/32	C	C1 Carr.-Program Term.
<p>(x) Unbal. section is Band Pass Filter of 8.900KC. Mid-Band Freq.</p> <p>(y) Suppresses harmonics and unwanted sidebands.</p> <p>(z) Combined Filter</p> <p>(aq) Same as 72A also has 3 phase-shifting networks at 11 1/4°, 22 1/2° and 45°.</p> <p>(ar) Designed to balance the 520B Filter from .25-2.750 KC.</p>						

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LOW PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL. UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
6.000	147H	Bal.	1500:100,000	5-5/8 x 6-5/32 x 2-5/8	C	25A Oscillator
6.050	208G	Unbal.	600:600	8-5/8 x 3-13/32 x 5	C	J-68334A B1 Channel Shifter Panel-LD Radio
6.400	201F	Bal.	600:600	5-1/8 x 1-1/2 x 4-29/32	C	N Carr.-Program Ckt.
7.000	84B (y)	Bal. Bal. Unbal.	1600:1600 1600:1600 600:600	4-3/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys.
7.000	206B (y)	Bal. Bal. Unbal.	1000:1000 1000:1000 600:600	5-1/8 x 3-13/32 x 5	C	H Carr.
7.750	505L	Unbal.	20,000:20,000	1-7/16 x 1-7/16 x 2-11/16	C	J-68349B & C Initiators-TD-2 Radio
8.300	66A	Bal.	600:600	19 x 12-15/16 x 6-31/32	A	8000 cps. open-wire program transm. ckts. Line Filter
8.400	64A	Bal.	565:600	19 x 12-15/16 x 8-23/32	A	8000 cps. open-wire program transm. ckts. Line Filter
12.000	88D	Unbal.	400	2-11/16 x 1-13/16 x 2-1/2	C	Teletypewriter Sub Set-Noise Supp. in telegraph repeaters
13.000	42D	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
13.000	226R	Unbal.	10,000:10,000	1-21/32 x 3-13/32 x 4-29/32	A	J-68831A Visual Gain & Delay Set-L3 Carr.
13.500	42C	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
15.000	42H	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
15.500	42G	Bal.	605:605	19 x 12-15/16 x 6-31/32	A	C-Carr. Telephone Repeaters Directional Filter
16.500	105A	Bal. Bal.	675:675 200:200	6-15/16 x 3-7/16 x 4-3/8	C	J Carr. Sys.-Auxiliary Repeater Stations
17.000	105A	Bal.	675:675 200:200	6-15/16 x 3-7/16 x 4-3/8	C	J Carr. Sys.-Auxiliary Repeater Stations
18.600	530K	Unbal.	600:700	3-3/8 x 7-1/2 x 2-1/2	C	OAl Carr.-J-98705AC Repeater Amplifier Unit
18.600	530J (aa)	Unbal. Unbal.	135:135 600:600	3-3/8 x 7-1/2 x 2-1/2	C	OAl Carr. J-98705AA Group Rec. Unit

(y) Suppresses harmonics and unwanted sidebands.

(aa) Also Band Pass Filter with Impedance of 135:135 and Mid-Band Freq. of 188.000 KC.

5-AI

LOW PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
21.500	99A	Bal. Bal. Bal.	600:600 500:500 400:400	19 x 10-7/8 x 5-7/32	A	Auxiliary Repeater Stations-J Carr.
22.000	99A	Bal. Bal. Bal.	600:600 500:500 400:400	19 x 10-7/8 x 5-7/32	A	Auxiliary Repeater Stations-J Carr.
25.000	168J	Unbal.	4500:4500	2 x 1-9/16 x 3-7/16	C	TD-2 Radio Sys.-J-68836B Video Visual Test Set Rec.
31.000	106A	Unbal.	605:605	16 x 3-11/32 x 4-3/8	C	C Carr. Sys.-Roof Filter
31.000	217K	Unbal.	2000:2000	5-5/32 x 3-13/32 x 4-29/32	C	L3 Carr. J-68831A Vis. Gain & Delay Meas. Set
35.000	99A	Bal. Bal. Bal.	600:600 500:500 400:400	19 x 10-7/8 x 5-7/32	A	Auxiliary Repeater Stations-J Carr.
35.000	202C	Bal.	600:600	6-7/8 x 1-1/3 x 4-29/32	C	C Carr.-Directional Filter
40.000	162A	Unbal.	600:600	2 x 1-5/8 x 3-7/16	C	C, D or H Carr.
50.000	45A	Bal.	50:50	2-1/2 x 1-1/8 x 1-15/64	C	Protect 399A Transmitter against packing due to high freq.
61.000	208C	Unbal.	600:600	8-5/8 x 3-13/32 x 5	C	K Cable Carr.-Group Term.
62.000	207A	Unbal.	600:600	6-7/8 x 3-13/32 x 4-29/32	C	K Cable Carrier
86.000	167Y	Bal.	3000:3000	2 x 1-9/16 x 3-7/16	C	K Carr.-Group Demodulator Input Ckt.
87.000	112A	Unbal.	125:125	5 x 3-3/8 x 4-13/16	C	J2 Carr. Sys.-auxiliary repeaters
87.000	525K	Unbal.	75:75	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Pilot Supply Ckt.
134.000	201A	Bal.	300:260	5-1/8 x 1-1/2 x 4-29/32	C	K Carr.-Stablized Pilot Supply
140.000	103A	Unbal.	125:125	6-31/32 x 3-7/16 x 3-17/32	C	J2 Carr. Sys.-Group Modulation and Demodulation Equip.
148.000	167C	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
148.000	167E	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.

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LOW PASS FILTERS						
3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
162.000	104A	Unbal.	125:125	6-1/8 x 3-1/4 x 4-13/32	C	J2 Carr. Sys.-Roof Filter
165.500	540A	Unbal.	4300:4300	1-1/2 x 2-13/32 x 3-5/8	C	OBl, OC1, OD1 Carr.-J-98705F Group Transmitting Unit
170.000	525M	Unbal.	75:75	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-Intermediate Freq. Converter Panel & Pilot Supply Ckt.
175.000	82B	Bal.	14000:14000	8-9/16 x 5 x 6-1/32	C	17B Oscillator
198.000	167R	Unbal.	600:600	2 x 1-9/16 x 3-7/16	C	N1 Carr.
200.000	137A	Unbal.	72:72	2-9/16 x 3-13/32 x 3-7/16	C	L Coaxial Carrier-Modulation Measurements
210.000	217C	Unbal.	75:75	5-5/32 x 3-13/32 x 4-29/32	C	L1 Carr.-B2 & C2 Television Term.
210.000	530N	Unbal.	3000:135	3-3/8 x 7-1/2 x 2-1/2	C	OBl, OC1, OD1 Carr.-J-98705G Group Rec. & Repeater Amplifier Unit
270.000	167D	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
280.000	167G	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
285.000	226W	Unbal.	75:75	1-21/32 x 3-13/32 x 4-29/32	A	J-68802AG Automatic Switch-L1 Carr.
296.000	167H	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
300.000	167F	Unbal.	3000:3000	2 x 1-9/16 x 3-7/16	C	N1 Carr.
300.000	565B	Unbal.	600:600	3-7/16 x 3-3/8 x 4-29/32	C	96 Channel-on-Radio Receiving Amplifier Demodulator J-98706AA
311.100	225F	Unbal.	72:72	19 x 10 x 6-31/32	A	L Carr.-Blocking Equip.
425.000	556A (ab)	Bal. Unbal.	124:124 75:75	19 x 9-7/8 x 10-3/16	C	L3 Carr.-J-44104A Television Term.
554.200	224B	Unbal.	75:75	19 x 10 x 5-7/32	A	L Carr.-Supergroup Connector
563.000	565A	Unbal.	600:600	3-7/16 x 3-3/8 x 4-29/32	C	96 Channel-on-Radio Transmitting Amplifier Modulator J-98706AB
580.000	219C	Unbal.	72:72	8-21/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Equip.
590.000	534C	Unbal.	600:600	5-5/32 x 1-11/16 x 3-31/64	C	ON Carr.-J-98706AA Radio Rec. Amplifier Demodulator
620.000	219A	Unbal.	72:72	8-21/32 x 3-13/32 x 4-29/32	C	L Carr.-Group Equipment

(ab) Also High Pass Filter with Impedance of 75:75
and 3DB Cut-Off of 430.000 KC.

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LOW PASS FILTERS

3DB CUT-OFF IN KC	CJDE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
640.000	217A	Unbal.	72:72	5-5/32 x 3-13/32 x 4-29/32	C	L1 Carr.-Pilot Supply Circuit
2000.000	557C	Unbal.	75:75	19 x 9-7/8 x 3-1/8	C	L1 Carr.-J-68802AJ Receiving Color Unit C3 Television Term.
2100.000	557A	Unbal.	75:75	19 x 9-7/8 x 3-1/8	C	L1 Carr.-J-68802AH Transmitting Color Unit-B3 Television Term.
2900.000	500E	Unbal.	75:75	19 x 9-7/8 x 6-19/64	A	J-68807A TV Termination of L1 Line Ckts.
3150.000	525J	Unbal.	75:75	3-7/16 x 3-13/32 x 4-29/32	C	TD-2 Carr.-33 Trans. Meas. Set
3150.000	545A	Unbal.	75:75	5-5/32 x 1-11/16 x 3-1/2	C	L3 Carr.-Master Group Term.
3950.000	555A	Unbal.	75:75	3-7/16 x 1-11/16 x 4-29/32	C	L3 Carr.-J-68835A Amplifier & Regulator Test Ckt.
4660.000	544A	Unbal.	75:75	3-13/32 x 1-21/32 x 4-29/32	C	L3 Carr.-Master Group Term.
4800.000	211B	Bal.	110:110	5-5/32 x 3-13/32 x 4-29/32	C	Between TD-2 Sys.
6500.000	525P	Bal.	124:124	3-7/16 x 3-13/32 x 4-29/32	C	L3 Carr.-R3 TV Term.
7000.000	217P	Bal.	124:124	5-5/32 x 3-13/32 x 4-29/32	C	TD-2 Radio-J-68349 Automatic Switching Ckt.
8300.000	525S	Unbal.	75:75	3-7/16 x 3-13/32 x 4-29/32	C	TD-2 Automatic Switching Ckt.
8540.000	525R	Unbal.	75:75	3-7/16 x 3-13/32 x 4-29/32	C	TD-2 Automatic Switching Ckt.
16,000.000	558A	Bal.	124:124	1-1/2 x 2-15/16 x 2-13/16	C	TD-2 Radio Sys.-J-68336 Video Amplifier
23,000.000	523A	Unbal.	75:75	2-3/8 x 1-5/32 x 1-1/4	C	TD-2 Sys.-Terminal Transmitter-J-68336A
27,000.000	524A	Bal.	600:600	24 x 12 x 24	C	High Powered Transatlantic Radio Transmitters

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LOW PASS FILTERS					
CODE	BAL/ UNBAL.	SIZE	MTG. FIG.	WHERE USED	NOTES
DIAL INTERFERENCE - Eliminates dial tone interference in radio rec.					
61A	Unbal.	1-5/8 x 1-1/16 x 15/32	C	Station ckts. to suppress freq. induction due to dialing	Basic design for 61 type
61B	Unbal.	"	C	Nos. 50, 51, 52, 151 & 152 Type Desk Stands	Metal bracket mtg.
61D	Unbal.	"	C	Nos. 553, 653 Type Subscriber Sets	Metal bracket mtg.
61E	Unbal.	"	C	Nos. 574, 577 Type Subscriber Sets	Metal bracket mtg.
61F	Unbal.	"	C	Nos. 50, 150 Type Coin Collectors	Metal bracket mtg.
61G	Unbal.	"	C	C1 Handset mtg. & Nos. 101 & 201 Type Hand Tel Sets	Metal bracket mtg.
61J	Unbal.	"	C	E Type Handset Mtgs. & Nos. 105, 205 & 208 Hand Tel. Sets.	Metal bracket mtg.
61L	Unbal.	"	C	300 or similar type Tel. Sets	Metal bracket mtg.
61M	Unbal.	"	C	G type hand set mtgs.	Metal spring clip
61N	Unbal.	"	C	B & D type Hand Set mtg.	Metal bracket mtg.
61P	Unbal.	"	C	302 or similar type Tel. Sets	Metal bracket mtg.
61R	Unbal.	"	C	Coin Collectors with Stainless Steel Coin Chutes	Metal bracket mtg.
61S	Unbal.	"	C	Mod. 300 & 410 type Tel. Sets on which are superimposed carr. ckts.	Metal bracket mtg.
NOISE SUPPRESSION					
81B	-	3-1/4 x 7-1/2 x 4-1/4	C	K Carr.-Longitudinal Noise Suppression	Suppresses longitudinal currents
81C	-	"	C	K Carr.-Longitudinal Noise Suppression	Provides longitudinal suppression in 2 separate pairs
81D	-	"	C	K Carr.-Longitudinal Noise Suppression	Provides longitudinal suppression for 1 pair
126A	Bal.	1-13/32 x 25/32 x 3-7/16	C	In unattended Dial Offices-Reducing Radio Freq. Induction	

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COMBINED FILTERS							
	3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
LP HP	.060 approx. 150.000	521A (ac)	Unbal. Unbal.	75:75 75:75	13-1/2 x 7-1/2 x 6-11/16	C	L3 Coax. Sys.-Aux. Repeater Power Separation
LP HP	1.900 2.050	207F	Bal. Bal.	600:600 600:600	6-7/8 x 3-13/32 x 4-29/32	C	OAl Carr.
LP HP	3.200 3.750	208F	Bal. Unbal.	690:690 660:660	8-5/8 x 3-13/32 x 5	C	H Carr.-Line Filter
LP HP	3.300 3.750	85C	Bal. Bal. Unbal.	690:690 660:600	8-9/16 x 3-1/4 x 4-1/4	C	H Carr. Tel. Sys. Line Finder
LP HP	3.300 3.750	86A (as)	Bal. Bal. Unbal.	690:690 660:600	12-31/32 x 3-1/4 x 4-5/16	C	H Carr. Tel. Sys.-Line Filter
LP HP	--- ---	150A (ax)	---	---	12-1/8 x 3-7/16 x 5-1/10	C	H Carr. Sys.
LP HP	3.600 3.800	519B (ad)	Bal. Bal.	600:600 600:600	16 x 5-3/8 x 5-3/32	C	C & J Carr.
LP HP	3.600 3.800	520B (at)	Bal. Bal.	600:600 600:125	19-3/8 x 14 x 7-3/8	B	C & J Carr.-Separates voice freq. from Carr. freq.
LP HP	4.300 6.750	562A	Bal. Bal.	730:730 730:730	3-1/2 x 4-3/8 x 5	B	P Carr. Repeaters-By-passing voice ckt.
LP HP	5.000 5.800	519A (ae)	Bal. Bal.	600:600 600:600	16 x 5-3/8 x 5-3/32	C	C & J Carr.
LP HP	5.500 5.800	520A (au)	Bal. Bal.	600:600 600:125	19-3/8 x 14 x 7-3/8	B	C & J Carr. Separates Program Freq. from Carr. Freq.
LP HP	5.200 6.200	217R	Bal. Bal.	124:600 124:124	5-5/32 x 3-13/32 x 4-29/32	C	Split Apart Filter for TJ Radio Sys.
LP HP	5.300 5.900	72A (af)	Bal. Bal.	600:690 600:690	8-17/32 x 3-9/32 x 4-5/16	C	G1 Carr. Tel. Sys.-J-68737 Used in East Term.
LP HP	5.300 5.900	72B (af, aq)	Bal. Bal.	600:690 600:690	8-17/32 x 3-9/32 x 4-5/16	C	G1 Carr. Tel. Sys.-J-68737 Used in West Term.

(ac) Separates 60 cycle power from high freq. signal.

(ad) Component of 520B Filter.

(ae) Component of 520A Filter.

(af) Also Low Pass Filter with Impedance of 690:690 and 3DB Cut-Off of 4.700 KC.

(aq) Same as 72A; also has 3 phase-shifting networks at 11-1/4°, 22-1/2° and 45°.

(as) Consists of 85C Filter & 155A Balancing Network selected to balance each other.

(at) Junction line filter with 519A Filter, 441A & 444A Networks.

(au) Junction line filter with 519B Filter, 441A & 444A Networks.

(ax) Consists of a 208 Filter and a 205 Network mounted on same panel. Electrically replaces 86A Filter.

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COMBINED FILTERS							
	3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
LP HP	5.400 6.500	121A	Bal. Bal.	600:600 570.600	19 x 12-15/16 x 6-31/32	A	C Carr. Sys.-Line Filter
LP HP	15.000 35.000	146E (ag)	Unbal. Unbal.	600:600 72:72	3-3/32 x 3-15/16 x 7-3/32	C	Power Separators for Repeater Power Panel - L Carr.
LP HP	15.000 35.000	146F (ah)	Unbal. Unbal.	600:600 72:72	3-3/32 x 3-15/16 x 7-3/32	C	Power Separators for Repeater Power Panel - L Carr.
LP HP	15.000 35.000	146G (ah)	Unbal. Unbal.	600:600 72:72	3-3/32 x 3-15/16 x 7-3/32	C	Power Separators for Repeater Power Panel - L Carr.
LP HP	15.000 35.000	146H (ah)	Unbal. Unbal.	600:600 72:72	3-3/32 x 3-15/16 x 7-3/32	C	Power Separators for Repeater Power
LP HP	17.800 20.400	530H	Unbal. Unbal.	600:600 600:600	3-3/8 x 7-1/2 x 2-1/2	C	OAL Carr.-J-98705AA Group Rec. Unit & J-98705AC Repeater Amplifier Unit
LP HP	32.000 34.000	102A	Bal. Bal.	500-600:600 500-600:105-142	19 x 10-29/32 x 10-15/32	A	Line Filter Sets-J Carr.
LP HP	32.000 34.000	102B	Bal. Bal.	500-600:600 500-600:238-252	19 x 10-29/32 x 10-15/32	A	Line Filter Sets-J Carr.
LP HP	37.600 37.900	538D (aj)	Bal. Bal.	600:600 600:135	12-13/16 x 6 x 10-5/32	B	Segregate OB, OC & OD Carr. Sys.
LP HP	37.600 37.900	219S	Bal. Bal.	600:600 600:135	8-21/32 x 3-13/32 x 4-29/32	C	In open wire lines to separate O Carr. Frequencies
LP HP	77.000 79.000	220F	Bal. Bal.	600:600 600:600 or :135	3-13/32 x 10-13/32 x 4-29/32	C	Open wire lines-O Carr. Tel. Sys. Separate OB from OC & OD Carr.
LP HP	77.000 79.000	538J (av)	Bal. Bal.	600:600 600:600 or :135	12-13/16 x 6 x 10-5/32	B	Segregate OC Carr. from OB Carr.
LP HP	86.000 90.000	101A	Bal. Bal.	125:125 125:125	19 x 10-7/8 x 15-23/32	A	J Carr. Tel. Sys.-Directional Filter
LP HP	86.000 91.000	100A	Bal. Bal.	125:125 125:125	19 x 10-7/8 x 20-31/32	A	J Carr. Tel. Sys.-Directional Filter
LP HP	116.500 119.000	220G	Bal. Bal.	600:600 600:600 or :135	3-13/32 x 10-13/32 x 4-29/32	C	Open wire lines-O Carr. Tel. Sys. Separate OC from OD Carr.
<p>(ag) Same as 146C Filter except no plugs or jacks and cord lengths differ. (aj) Pole Mounted 219S Filter.</p> <p>(ah) Electrically same as 146E Filter except for voltage. (av) Pole mounted 220F Filter.</p>							

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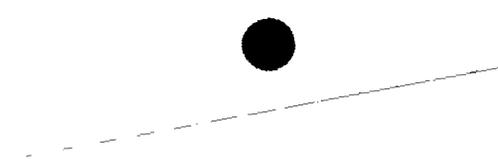
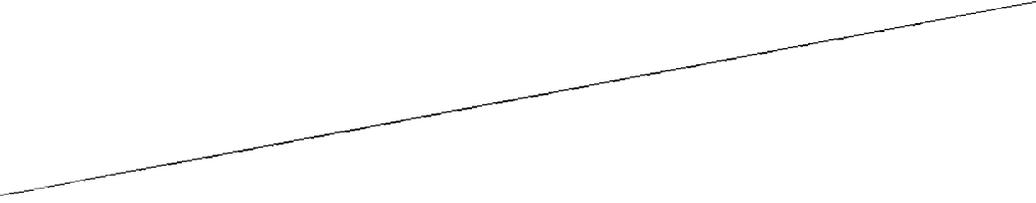
COMBINED FILTERS							
	3DB CUT-OFF IN KC	CODE	BAL/ UNBAL.	IMPEDANCE	SIZE	MTG. FIG.	WHERE USED
LP HP	117.000 119.000	538K (aw)	Bal. Bal.	600:600 600:600 or :135	12-13/16 x 6 x 10-5/32	B	Segregate OD Carr. from OC Carr.
LP HP	144.000 158.000	564A	Unbal. Unbal.	600:600 600:600	5-3/16 x 3-13/32 x 4-29/32	C	48 Channel-on-Radio Combining Panel J-98706W
LP HP	283.000 298.000	564B	Unbal. Unbal.	600:600 600:600	5-3/16 x 3-13/32 x 4-29/32	C	96 Channel-on-Radio Combining Panel J-98706U
LP HP	640.000 640.000	534B	Unbal. Unbal.	75:75 75:75	5-5/32 x 1-11/16 x 3-31/64	C	L3 Carr.-47A Trans. Meas. Set
LP HP	3200.000 3300.000	550A	Unbal. Unbal.	75:75 75:75	19-1/16 x 3-5/16 x 4-27/32	C	L3 Carr. J-68830B Repeater
LP HP	3200.000 3450.000	550B	Unbal. Unbal.	75:75 75:75	19-1/16 x 3-5/16 x 4-27/32	C	L3 Carr. J-68830B Repeater
LP HP	4700.000 5300.000	556B	Bal. Bal.	124:124 124:124	19 x 9-7/8 x 10-3/16	C	TD-2 Radio Sys.-Single Broad-Band Channel
LP HP	5350.000 5490.000	500F (ak)	Bal. Bal.	124:124 124:124	19 x 9-27/32 x 6-5/8	A	TH Microwave Radio Relay Sys. & TD2 Radio Relay Sys. J-68406FM Term. Eq.
LP HP	5400.000 5500.000	550C (ak)	Bal. Bal.	124:124 124:124	19-1/16 x 3-5/16 x 4-27/32	C	TH Microwave & TD2 Radio Relay Sys. J-68406FM Term. Equip.
BP LP	2.840-3.540 2.720	206P	Bal. Bal.	600:600 600:600	5-1/8 x 3-13/32 x 5	C	Receiving Ckts.-71A1 Level Compensator K & L1 Carrier
BP B.EI	3.320-4.020 3.420-3.900 at 20db	209C	Bal. Bal.	600:675 675:675	10-3/8 x 3-13/32 x 4-29/32	C	As A Line Filter Between Voice Tel. Band and H Carr.
BP HP	63.000 66.000	559A	Bal. Bal.	135:135 135:135	5-5/32 x 3-13/32 x 8-27/32	C	ON/K Carr. Tel. Term. & Repeater Equip.- Line Filter
HP B.EI	113.000 119.900-200.040 at 40db	218M	Unbal. Unbal.	75:75 75:75	6-29/32 x 3-13/32 x 4-29/32	C	J-64046 Trans. Meas. Set - L1 Carr.
LP B.EI	2.700 3.020-3.350 at 60db	205C	Bal. Bal.	600:600 600:600	3-3/8 x 3-13/32 x 4-29/32	C	71A1 Level Compensator-K & L1 Carr.- Telephotograph Sys.

(ak) Used in conjunction with 550C Filter.

(aw) Pole mounted 220G Filter.

(ak) Used in conjunction with 550F Filter.

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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
17A	600 Unbal	Disc	2&3	db	.035	8.0	8.5	-1.4	0*	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17B	600 Unbal	Disc	1	db	.035	8.0	0	-9	0*	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17C	600 Unbal	Att	2	db	.035	8.0	5.75	0	0 to .23	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17D	600 Unbal	Disc	7	db	8.0	.035	0	-13.5	0 to -3.8*	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17E	600 Unbal	Att	7	db	8.0	.035	3.5	0	0 to .5	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17F	600 Unbal	Disc	3	db	.035	8.0	0	-13.8	0 to -10.6*	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17G	600 Unbal	Att	7	db	8.0	.035	5.4	0	0	Lin	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17H	600 Unbal	Disc	3	db	.035	8.0	0	-14.8	0 to -5.6*	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17J	600 Unbal	Att	16	db	8.0	.035	3.0	0	0	Lin	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17K	600 Unbal	Disc	12	db	.035	8.0	0	-14	0	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17L	600 Unbal	Att	10	db	.17	8.0	5.1	0	0 to .4	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17M	600 Unbal	Disc	14	db	8.0	.17	0	-9.8	0 to -.6*	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)

* From reference loss.

1-1A

Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Wt. g	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
17N	600 Unbal	Att	10	db	4.5	.035	44.0	0	0 to 8	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17P	600 Unbal	Att	10	db	1.0	.035	3.5	0.2	.3 to 3.5	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17R	600 Unbal	Att	14	DB	15.0	0.4	15.8	0	.3 to 1.6	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
17S	600 Unbal	Att	2	db	.035	0.5	22.9	0	.3 to 2.2	Log	PL	8.25	1.75	4.88	C	In 16 gauge B-22 cable program circuit. (Ref. level adj. by inserting 89-type resistor)
18A	600 Bal	Att	1	db	0.05	8.0	7.9	0.4	1.55	Log	SW-8	19.00	11.03	5.22	A	In 104 mil open wire circuit
18B	600 Bal	Att	1	db	0.05	8.0	10.1	0.8	2.6	Log	SW-8	19.00	11.03	5.22	A	In 128 mil open wire circuit
18C	600 Bal	Att	1	db	0.05	8.0	13.6	1.6	4.1	Log	SW-15	19.00	11.03	5.22	A	In 165 mil open wire circuit
18D	600 Bal	Att	12	db	0.05	8.0	7.4	0	7.1	Log	SW-15	19.00	11.03	5.22	A	In 104, 128, 165 mil open wire circuit
19B	600 Unbal	Del	1 Flat	Usec db	.035 0	8.0 9.0	680 (1.35 nom)	250	680	Lin	F	8.50	5.75	4.94	C	To equalize delay of 25 miles of 16 gauge B-22 loaded cable program circuit
20E	600 Unbal	Del	3 9	Usec db	.035 3.5	8.0 0	159 .22	30 .07	157 .12	Lin Lin	F	3.28	1.69	4.59	C	In 19B equalizer
20F	600 Unbal	Del	3 9	Usec db	1.5 4.0	8.0 0	130 .22	32 .06	130 .1	Lin Lin	F	3.28	1.69	4.59	C	In 19B equalizer
20G	600 Unbal	Del	10 10	Usec db	4.5 5.0	8.0 0	170 .34	44 .03	56 .04	Lin Lin	F	3.28	1.69	4.59	C	In 19B equalizer
20H	600 Unbal	Del	10 10	Usec db	6.2 6.5	0 0	170 .42	30 .01	30 .02	Lin Lin	F	3.28	1.69	4.59	C	In 19B equalizer
21A	600 Unbal	Att	2 2	db Usec	.035 .042	8.0 8.0	10 158	.5 0	1.8 1.0	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer

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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
21B	600 Unbal	Att	4 6	db Usec	.035 8.0	8.0 .035	57 26	0.5 0	28 3	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21D	600 Unbal	Att	6 10	db Usec	8.0 .058	.035 8.0	30 570	1.5 0	12.5 55	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21E	600 Unbal	Att	16 12	db Usec	8.0 .3	.035 8.0	2.4 17	0 9.5	0 16	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21F	600 Unbal	Att	2 10	db Usec	.035 .2	8.0 10.0	30 180	1.0 0	4 78	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21G	600 Unbal	Att	16 6	db Usec	8.0 8.0	.035 .035	5.0 50	0 0	0.5 7.0	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21H	600 Unbal	Att	2 2	db Usec	.035 .05	8.0 8.0	37 115	0 8.0	8.5 50	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21J	600 Unbal	Att	16 16	db Usec	8.0 8.0	.035 .035	3.3 35	0 0	0 0	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21K	600 Unbal	Att	4 6	db Usec	.035 7.5	8.0 .035	58 90	0 0	28 5.0	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21L	600 Unbal	Att	1 16	db Usec	.035 4.5	5.0 .035	58 80	1.0 6.0	28 7	Log Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
21M	600 Unbal	Att	2	db	.05	8.0	20.8	0	1.0	Log	PL	3.28	1.69	4.59	C	In 17-type equalizer
22B	600 Unbal	Att	10	db	.17	8.0	14.8	6	6.5	Log	PL	4.28	1.69	4.41	C	In 17-type equalizer
22C	600 Unbal	Att	14 10	db Usec	8.0 .17	.17 8.0	43 2800	6 0	24 0	Log Log	PL	4.28	1.69	4.41	C	In 17-type equalizer
22D	600 Unbal	Att	2 2	db Usec	.035 .035	8.0 8.0	4.8 205	0 0	0 0	Log Log	PL	4.28	1.69	4.41	C	In 17-type equalizer
22E	600 Unbal	Att	14	db	0	5.5	1.0	0	.85	Lin	F	4.28	1.69	4.41	C	In 19B equalizer
22F	600 Unbal	Att	14	db	8.0	0.4	10.5	0	.5	Log	PL	4.28	1.69	4.41	C	In 17R equalizer
22G	600 Unbal	Att	10	db	1.0	8.0	9.7	.6	9.7	Log	PL	4.28	1.69	4.41	C	In 17P equalizer

E-1A

Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Use
					Freq. KC	Of Max Perf.	Of Min Perf.	Loss-Delay	Max.			Min.	At 1 KC	L		
23A	600 Unbal	Att	1	db	.035	8.0	34	0	6.5-24	Log	ST-8	3.28	1.69	3.44	C	To correct the attenuation distortion on non-loaded local cable circuits used for program transmission
27A	600 Unbal	Att	14	db	5.0	1.0	40	10	10	Lin	F	5.91	2.88	3.16	C	In 2A noise measuring set
29A	600 Bal	Att	3	db	.05	8.0	.95	.3	.55	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29B	600 Bal	Att	3	db	.05	8.0	2.9	.7	.9	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29C	600 Bal	Att	3	db	.05	8.0	1.8	.8	.9	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29D	600 Bal	Att	3	db	.05	8.0	1.3	.8	.85	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29E	600 Bal	Att	12	db	.05	8.0	1.05	.1	1.0	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29F	600 Bal	Att	3	db	.05	8.0	1.35	.65	.75	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29G	600 Bal	Att	3	db	.05	8.0	3.4	1.3	1.4	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29H	600 Bal	Att	3	db	.05	8.0	2.0	1.0	1.1	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29J	600 Bal	Att	3	db	.05	8.0	1.5	1.0	1.0	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29K	600 Bal	Att	12	db	.05	8.0	1.9	.1	1.85	Log	SW-8	3.41	3.44	4.41	C	In 18-type equalizer
29L	600 Bal	Att	3	db	.05	8.0	2.1	1.4	1.4	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29M	600 Bal	Att	3	db	.05	8.0	3.2	1.2	1.25	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29N	600 Bal	Att	3	db	.05	8.0	2.2	1.2	1.25	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29P	600 Bal	Att	3	db	.05	8.0	1.75	1.3	1.25	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer

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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
29R	600 Bal	Att	12	db	.05	8.0	2.8	.2	2.7	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29S	600 Bal	Att	12	db	.05	8.0	2.5	.1	1.5	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29T	600 Bal	Att	12	db	.05	8.0	.5	0	.5	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29U	600 Bal	Att	12	db	.05	8.0	1.0	.1	.9	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29W	600 Bal	Att	12	db	.05	8.0	3.9	.3	3.8	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
29Y	600 Bal	Att	12	db	.05	8.0	2.0	.1	1.9	Log	SW-15	3.41	3.44	4.41	C	In 18-type equalizer
35A	600 Bal	Del	10 10	msec db	4.3 4.5	9.0 0	.72 1.3	.02 .03	.07 .05	Lin Lin	F	4.19	3.25	4.25	C	In 1103A equalizer on program transmission systems
35B	600 Bal	Del	10 10	msec db	3.0 3.2	9.0 0	.67 .86	.02 .06	.15 .1	Lin Lin	F	4.19	3.25	4.25	C	In 1103A equalizer on program transmission systems
35C	600 Bal	Del	10 10	msec db	1.8 2.0	9.0 9.0	.72 .62	.02 .08	.45 .28	Lin Lin	F	4.19	3.25	4.25	C	In 1103A equalizer on program transmission systems
35D	600 Bal	Del	3 3	msec db	.5 .7	9.0 9.0	.95 .64	.01 .08	.77 .58	Lin Lin	F	4.19	3.25	4.25	C	In 1103A equalizer on program transmission systems
35E	600 Bal	Del	3 9	db msec	0 5.0	6.5 0	2.05 +.006	.05 -.01	1.9 -.01	Lin Lin	F	4.19	3.25	4.25	C	In 1103A equalizer on program transmission systems
49A	600 Bal	Del	1 1 10	msec db db	0 1.0 5.2	8.5 5.05 8.5	1.4 3.7 3.1	.1 1.6 1.1	1.36 3.7 -	Lin Lin Lin	F	19.00	5.22	4.88	C	To equalize the attenuation and delay of two 121A filters on program transmission circuits
51A	600 Unbal	Att	7	db	8.0	.035	∞	1.4	2 to ∞	Log	PL	8.25	3.59	4.91	C	As supplementary low-frequency equalizer on cable program circuits (adj. reference level)
52A	600 Bal	Att	Flat 9	db msec	.01 2.8	8.0 0	10.7 3.5	9.0 .5	9.1 1.8	Lin Lin	F	19.00	9.13	8.72	A	On single side-band carrier program terminals
200B	600 Bal	Del	10	msec	5.0	.3	.64	.01	.01	Lin	F	3.33	1.50	4.91	C	With 52A equalizer on single side-band carrier program circuits

5-1A

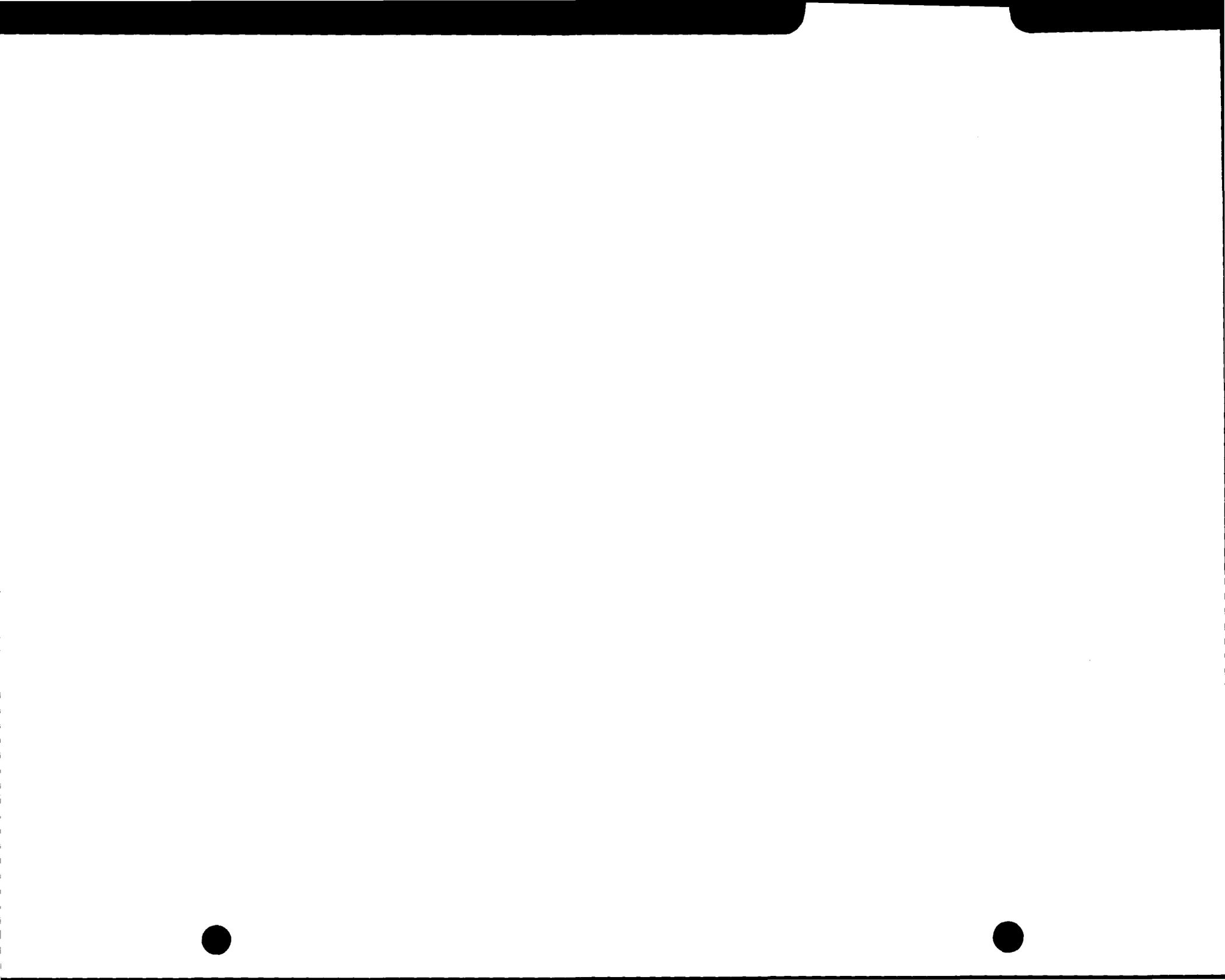
Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
200C	600 Bal	Del	3	Usec	1.0	3.9	315	57	315	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200D	600 Bal	Del	10	Usec	2.1	3.6	249	126	167	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200E	600 Bal	Del	6	Usec	3.6	.35	47	13.5	14.5	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200F	600 Bal	Del	6	Usec	3.6	.8	100	15	16	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200G	600 Bal	Del	2	Usec	.35	3.6	200	13	31	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200H	600 Bal	Del	2	Usec	.35	3.6	330	10	45	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200J	600 Bal	Del	12	Usec	1.3	3.6	167	107	166	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200K	600 Bal	Del	9	Usec	2.5	.35	147	117	125	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200L	600 Bal	Del	3	Usec	1.5	3.6	224	97	218	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200M	600 Bal	Del	9	Usec	2.5	.35	174	118	130	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200N	600 Bal	Del	10	Usec	1.5	3.6	289	84	258	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200P	600 Bal	Del	10	Usec	2.5	.3	210	115	138	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200R	600 Bal	Del	10	Usec	1.5	3.7	350	65	295	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200S	600 Bal	Del	10	Usec	2.4	3.9	274	116	138	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200T	600 Bal	Del	10	Usec	1.5	3.6	390	65	305	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200U	600 Bal	Del	10	Usec	2.3	.35	305	105	137	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission

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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			ltg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
200W	600 Bal	Del	2 10	Usec db	.5 .5	3.6 4.0	1160 1.02	10 0	240 .13	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200Y	600 Bal	Del	10 Flat	Usec db	2.3 0	.35 4.0	445 (.45)	85 nom)	130 .46	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AA	600 Bal	Del	10 Flat	Usec db	1.9 0	3.6 4.0	313 (.27)	95 nom)	210 .28	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AB	600 Bal	Del	10 3	Usec db	.8 .3	3.6 1.6	685 .55	25 .38	610 .43	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AC	600 Bal	Del	10 3	Usec db	1.8 1.5	3.6 3.8	367 .4	80 .15	230 .36	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AD	600 Bal	Del	10 3	Usec db	1.8 1.7	3.6 4.0	380 .41	85 .15	215 .36	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AE	600 Bal	Del	10 3	Usec db	1.9 1.7	3.6 4.0	405 .42	80 .15	205 .35	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AF	600 Bal	Del	7 9	Usec db	2.9 2.5	.35 4.0	228 .34	90 .21	106 .26	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AG	600 Bal	Del	7 9	Usec db	3.1 2.5	.35 4.0	176 .3	92 .22	104 .27	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AH	600 Bal	Del	3 9	Usec db	.35 1.3	3.9 4.0	260 .17	73 .1	240 .17	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AJ	600 Bal	Del	3 9	Usec db	.35 2.5	3.9 0	188 .13	80 .09	173 .12	Lin Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
200 AK	600 Bal	Del	12	Usec	1.3	3.9	190	90	188	Lin	F	3.38	1.50	4.91	C	In SAGE project and telephoto transmission
203A	-	-	-	-	-	-	-	-	-	-	F	8.63	1.50	5.00	C	In 52A equalizer
207B	-	-	-	-	-	-	-	-	-	-	F	6.87	3.40	5.00	C	In 52A equalizer
208A	-	-	-	-	-	-	-	-	-	-	F	8.62	3.40	5.00	C	In 52A equalizer
208B	-	-	-	-	-	-	-	-	-	-	F	8.62	3.40	5.00	C	In 52A equalizer
208C	-	-	-	-	-	-	-	-	-	-	F	8.62	3.40	5.00	C	In 52A equalizer
208D	-	-	-	-	-	-	-	-	-	-	F	8.62	3.40	5.00	C	In 52A equalizer
208E	-	-	-	-	-	-	-	-	-	-	F	8.62	3.40	5.00	C	In 52A equalizer

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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
208F	600 Bal	Del	1 1	Usec db	1.2 0	2.75 3.6	2870 4.0	1100 .5	2120 3.1	Lin Lin	F	8.62	3.40	5.00	C	In sending circuit of 71A1 level compensator for telephotograph line facilities
214A	1619 Bal	Del	10 Flat	msec db	87.4 79.5	83 88	2.5 (7.7	0 nom)	- -	Lin Lin	F	10.41	3.41	4.91	C	With 52A equalizer in single side-band program
341A	600 Bal	Att	12	db	.2	3.8	8.0	.3	7.8	Lin	F	9.31	2.32	1.08	C	In J68850 equipment of TASI system



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Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
226D	75 Unbal	Att	18	db	3.0	1	1	4.9	.9	.9- 4.9	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video amplifier equip. (adj. by potentiometer)
226E	75 Unbal	Att	19	db	5.5	7000	7000	9.5	1.6	5.1- 5.9	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video amplifier equip. (adj. by potentiometer)
226F	75 Unbal	Att	22	db	3.0	3100	3100	5.2	.8	-	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video amplifier equip. (adj. by potentiometer)
226G	75 Unbal	Att	22	db	3.0	3600	3600	5.3	.8	-	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video amplifier equip. (adj. by potentiometer)
226H	75 Unbal	Att	22	db	3.0	4200	4200	5.2	.8	-	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video amplifier equip. (adj. by potentiometer)
226P	75 Unbal	Att	19	db	5.5	5000	5000	9.9	1.3	-	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video amplifier equipment
226R	124 Bal	Att	19	db	5.5	5000	5000	9.4	1.3	-	Log	CO	3.41	1.66	4.91	C	In TD-2 radio terminal bay for color TV transmission
301A	110 Bal	Att	12	db	-	1	4000	6.6	.6	6.6	Log	ST-12	3.41	1.66	4.91	C	In A2 video transmission system
309A	1000 Unbal	Att	12	db	-	800	4000	15.5	2	13	Log	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
309B	1000 Unbal	Att	12	db	-	1	4000	10	0	10	Log	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
309C	1000 Unbal	Att	12	db	-	600	4000	13.8	2	12.6	Log	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
309D	1000 Unbal	Att	1	db	-	1	4000	11.8	1.7	11.8	Log	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
310A	1000 Unbal	Att	1	db	-	40	4000	12	0	12	Log	PL	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
312A	1000 Unbal	Att	10	db	-	3000	5000	3.9	0	1.9	Log	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
312B	1000 Unbal	Att	10	db	-	3000	5000	3.8	0	2	Log	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment
313A	110 Bal	Ph	5	deg	-	4000	0	244	0	-	Lin	F	5.09	3.09	4.75	C	In J44100 A2 video amplifier equipment

T-III

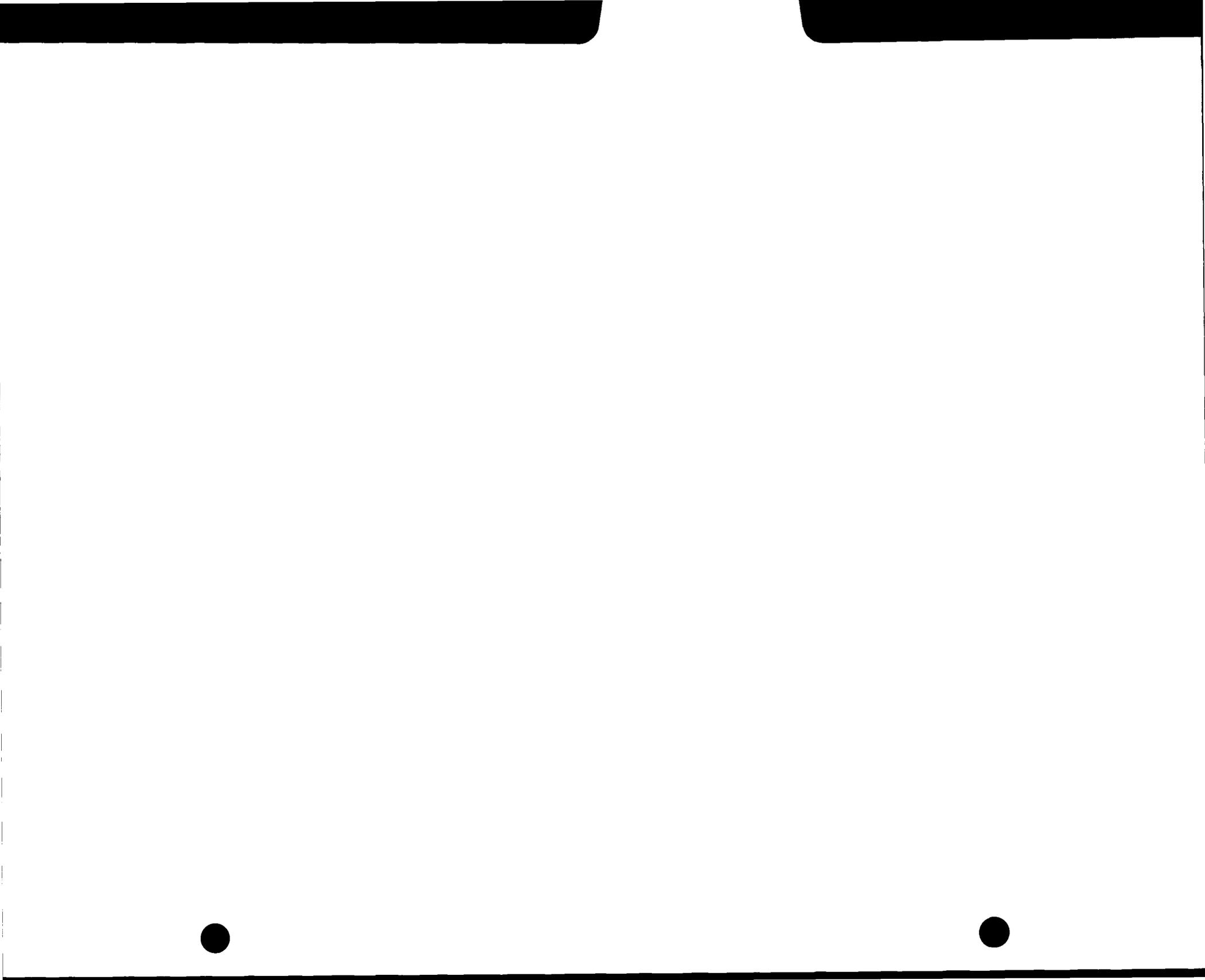
Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used	
						freq. KC		Loss-Delay					L	W	H			
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC								
330A	75 Unbal	Att	1	db	-	.1	8000	2.98	.5	2.9	Log	F	6.91	3.41	4.91	C	In J44105 A2A video transmission system	
330B	75 Unbal	Att	1	db	-	.1	8000	5.95	1	5.8	Log	F	6.91	3.41	4.91	C	In J44105 A2A video transmission system	
330C	75 Unbal	Att	1	db	-	.1	8000	11.9	2	11.6	Log	F	6.91	3.41	4.91	C	In J44105 A2A video transmission	
330D	75 Unbal	Att	1	db	-	.1	8000	23.8	4	23.2	Log	F	6.91	3.41	4.91	C	In J44105 A2A video transmission system	
330E	75 Unbal	Att	1	db	-	.1	8000	17.85	3	17.4	Log	F	6.91	3.41	4.91	C	In J44105 A2A video transmission system	
330F	75 Unbal	Att	12	db	-	.1	10000	8.4	.5	8.3	Log	F	6.91	3.41	4.91	C	In J44106 A2B video transmission system	
330G	75 Unbal	Att	12	db	-	.1	10000	17	1	16.5	Log	F	6.91	3.41	4.91	C	In J44106 A2B video transmission system	
330H	75 Unbal	Att	12	db	-	.1	9000	4.2	.2	4.15	Log	F	6.91	3.41	4.91	C	In J44106 A2B video transmission system	
330J	75 Unbal	Att	12	db	-	.1	10000	12.7	.7	12.5	Log	F	6.91	3.41	4.91	C	In J44106 A2B video transmission system	
330K	75 Unbal	Att	19	db	2.0	.1	8000	8000	3.7	.3	-	Log	SW-20	6.91	3.41	5.88	C	In J44106 A2B video transmission system
330L	75 Unbal	Att	12	db	-	.1	8000	8.93	1.5	8.7	Log	F	6.91	3.41	4.91	C	In J44105 A2A video transmission system	
330M	75 Unbal	Att	22 22 22 22	db db db db	3.0 3.0 3.0 3.0	.1	16 120 700 2800	16 120 700 2800	4.2 4.1 4.0 3.9	2.0 1.9 2.0 2.0	- - - -	Log Log Log Log	CC	6.91	3.41	6.19	C	In J44105 A2A and J44106 A2B video transmission systems (adj. with 4 rheostats)
330N	75 Unbal	Att	1	db	-	.1	6000	20.6	0	16.2	Log	F	6.91	3.41	4.91	C	In J44105G A2A video transmission system	
330P	75 Unbal	Att	1	db	-	.1	6000	20.6	0	16.1	Log	F	6.91	3.41	4.91	C	In J44105H A2A video transmission system	
330R	62 Bal	Att	1	db	-	.1	6000	20.6	0	16.1	Log	F	6.91	3.41	4.91	C	In J44105H A2A video transmission system	

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Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
330S	75 Unbal	Att	22	db	1.5	1500	1500	2.5	.5	-	Log	CO	6.91	3.41	6.19	C	In J44105G or H of A2A video transmission systems (adj. with 4 rheostats)
			22	db	1.5	3700	3700	2.7	.3	-	Log						
			22	db	1.5	560	560	2.4	.6	-	Log						
			22	db	1.5	2500	2500	2.6	.4	-	Log						
330T	75 Unbal	Att	1	db	-	1	3000	14.5	5	14.5	Log	F	6.91	3.41	4.91	C	In J44105M A2A video transmission system
330U	75 Unbal	Att	1	db	-	1	3000	20.5	7	20.5	Log	F	6.91	3.41	4.91	C	In J44105M A2A video transmission system
331A	75 Unbal	Att	-	-	-	-	-	-	-	-	SW	19.00	10.88	5.13	A	In J 44105 A2A and J44106 A2B video trans. systems	
332A	75 Unbal	Att	18	db	2.0	.1	.1	2.95	.2	.8-2.65	Log	SW-20	2.75	9.75	4.88	-	In 331A equalizer
332B	75 Unbal	Att	19	db	4.71	8000	8000	8.5	.9	4.4-5	Log	SW-40	2.75	9.75	4.88	-	In 331A equalizer
332C	75 Unbal	Att	22	db	2.0	10	10	2.5	1	1.65-2.2	Log	SW-20	2.75	9.75	4.88	-	In 331A equalizer
332D	75 Unbal	Att	22	db	1.0	35	35	1.5	.5	.98-1.2	Log	SW-20	2.75	9.75	4.88	-	In 331A equalizer
332E	75 Unbal	Att	22	db	4.2	2000	2000	8	3.5	-	Log	SW-40	2.75	9.75	4.88	-	In 331A equalizer
334A	124 Unbal	Att	12	db	-	.1	10000	5.5	1.6	5.5	Log	SW-20	6.91	5.16	5.92	C	In J44107P trunk equalizer panel for the television operating center of television systems
342A	75 Unbal	Att	1	db	-	1	10000	5.4	1.6	5.4	Log	SW-20	5.16	5.92	5.16	C	In J44107P trunk equalizer panel for the television operating center of television systems
344A	75 Unbal	Del	1	mus	-	0	5500	0	-22	-	Lin	F	1.44	2.13	4.59	C	In J44105 A2A video transmission system
			6	db	-	5200	0	.07	.01	-	Lin						
344B	75 Unbal	Del	1	mus	-	0	6300	0	-39	-	Lin	F	1.44	2.13	4.59	C	In J44015 A2A video transmission system
			6	db	-	5200	0	.08	.01	-	Lin						
344C	75 Unbal	Del	1	mus	-	0	6300	0	-75	-	Lin	F	1.44	2.13	4.59	C	In J44105 A2A video transmission system
			6	db	-	5200	0	.08	.02	-	Lin						

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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
38A	605 Unbal	Att	5	db	16	6.4	2.1	.5	-	Lin	F	3.41	2.56	3.44	C	At repeaters and terminals
38B	600 Unbal	Att	5	db	16	6.5	2.8	1	-	Lin	F	3.41	2.56	3.44	C	At repeaters and terminals
39A	605 Unbal	Att	1	db	0	16	28.5	3.5	-	Lin	F	7.88	3.38	4.88	C	At repeaters and terminals
39B	605 Unbal	Att	1	db	0	15.65	16	2.3	-	Lin	F	7.88	3.38	4.88	C	In open wire repeaters
40A	605 Unbal	Att	1	db	0	16.3	10	.3	-	Lin	F	7.13	3.38	4.88	C	At repeaters and terminals
			10	db	19.5	34	9.8	.1	-	Lin						
			7	db	∞	34	6.7	.1	-	Lin						
40B	605 Unbal	Att	1	db	0	17.2	-	-	-	Lin	F	7.13	3.38	4.88	C	In open wire repeaters
			10	db	20	36.2	4.7	-	-	Lin						
			7	db	∞	36.2	-	-	-	Lin						
42A	605 Unbal	Att	14	db	150	32	5.5	.3	-	Lin	F	3.41	2.56	3.44	C	To correct distortion caused by filters
200A	400:120 Bal	Att	7	db	10	.035	45	19	35	Log	F	3.38	1.50	4.91	C	With C1 carrier repeaters
320A	150 Unbal	Att	24	db	60 12	12 60	13.5 13.5	1.5 1.5	- -	Lin	ST-14	4.31	2.56	4.38	C	In K1, K2 and C carrier tel. systems (adj. by connecting external resistors)





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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
36B	125 Unbal	Att	4 14	db db	92 43	145 165	13.3 35	3 1	- -	Lin Lin	F	3.38	2.50	4.44	C	At receiving terminals
37A	16.45 Bal	Att	10	db	270	50	50	21	-	Lin	F	3.28	2.56	4.44	C	In amplifiers
37B	62.5 Unbal	Att	10	db	36	2000	45.5	17	-	Log	F	3.28	2.56	4.44	C	In amplifiers
43A	125 Unbal	Att	6 14	db db	33 33	.1 100	24.2 24.2	4.3 1	4.5 -	Lin Lin	F	3.41	3.44	4.41	C	At terminals
43B	125 Unbal	Att	1 10	db db	.1 170	80 80	50.5 49.5	1 1	50.5 -	Lin Lin	F	3.41	3.44	4.41	C	At terminals
45A	125 Unbal	Att	12	db	92	143	6.2	4.9	-	Lin	F	4.31	2.56	4.38	C	At terminals
45B	125 Unbal	Att	9	db	70	36	7	6.3	-	Lin	F	4.31	2.56	4.38	C	At terminals
46A	125 Unbal	Att	9	db	120	92	3.5	1.5	-	Lin	F	5.56	2.56	4.34	C	At terminals
46B	125 Unbal	Att	9	db	60	84	3	1.2	-	Lin	F	5.56	2.56	4.34	C	At terminals
47A	125 Unbal	Att	1	db	50	84	4	3.4	-	Lin	F	6.94	3.44	4.38	C	At repeater stations
48A	125 Bal	Att	9	db	120	90	5	4.4	-	Lin	F	6.06	3.25	4.41	C	At repeater stations

I-XI



X
A CARRIER'S
EQUALIZERS



June 1961

Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
30A	3500 Unbal	Att	6	db	60	12	25	8	-	Log	F	5.00	5.19	4.41	C	In line amplifiers (Beta Circuit Loss)
30B	3500 Unbal	Att	6	db	60	12	26	7	-	Log	F	5.00	5.19	4.41	C	In line amplifiers (Beta Circuit Loss)
30C	3500 Unbal	Att	6	db	60	12	23	9	-	Log	F	5.00	5.19	4.41	C	In line amplifiers (Beta Circuit Loss)
30D	3500 Unbal	Att	10	db	62	12	29.2	6.5	-	Log	F	5.00	5.19	4.41	C	In line amplifiers (Beta Circuit Loss)
54A	135 Unbal	Att	10 2	db db	30 10	10 70	4.9 7	.1 .1	- -	Lin Lin	ST-3 ST-2	5.13	3.41	5.00	C	In J68782C and J68783A panels (Term. 2, 3 and 7) (Term. 1, 2 and 4)
54B	135 Unbal	Att	10 14 7	db db db	44 6 68.5	6 44 6	3.0 2.2 5.1	0 .3 0	- - -	Lin Lin Lin	ST-1 ST-2 ST-2	5.13	3.41	5.00	C	In J68782C and J68783A panels (Straps)
200 AL	600 Bal	Att	2	db	1	2.6	1.45	.35	1.45	Lin	F	3.38	1.50	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
201A	135 Unbal	Att	14 14 7 7	db db db db	60 12 12 60 60	44 44 44 16 18	2.65 2.9 2.3 1.0 1.0	.95 .95 .05 0 0	- - - -	Log Log Log Log	ST-5	5.13	1.50	5.00	C	In input circuit of J68782 line ampl. and J68783 twist ampl. (Term. 1, 9) (Strap 3-4 and 5-6) (Term. 1, 9) (Strap 3-4 and 7-8) (Term. 1, 3) (Term. 4, 9) (Strap 5-6) (Term. 4, 9) (Strap 7-8)
201B	135 Unbal	Att	2	db	10	54	3.8	.2	-	Log	F	5.13	1.50	5.00	C	In input circuit of J68782 line ampl. and J68783 twist amplifier
205B	600 Bal	Del	9 9	Usec db	3.15 3.17	2.94 2.94	1600 1.7	1120 1.1	- -	Lin Lin	F	3.38	3.41	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
209A	600 Bal	Del	12 12	Usec db	2 .05	3.4 3.6	2270 3	1320 1.2	2140 2.7	Lin Lin	F	10.38	3.41	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
209C	600 Bal	Del	1 9	Usec db	1 2.3	2.6 2.6	2920 2.3	2050 1.85	2920 1.9	Lin Lin	F	10.38	3.41	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
320A	150 Unbal	Att	24	db	60 12	12 60	13.5 13.5	1.5 1.5	- -	Lin	ST-14	4.31	2.56	4.38	C	In K1, K2 and C carrier telephone system (adj. by connecting external resistors)

1-1





Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
53A	72 Unbal	Att	3	db	-	100	2100	13	0	-	Lin	F	7.00	3.13	4.38	C	At repeater stations
53E	75 Unbal	Att	3	db	-	100	2500	12	.5	-	Lin	F	7.00	2.94	4.38	C	In auxiliary and main repeater stations
200 AL	600 Bal	Att	2	db	-	1	2.6	1.45	.35	1.45	Lin	F	3.38	1.50	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
205B	600 Bal	Del	9	Usec	-	3.15	2.94	1600	1120	-	Lin	F	3.38	3.41	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
				db	-	3.17	2.94	1.17	1.1	-							
209A	600 Bal	Del	12	Usec	-	2.0	3.4	2270	1320	2140	Lin	F	10.38	3.41	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
				db	-	.05	3.6	3	1.2	2.7							
209C	600 Bal	Del	1	Usec	-	1.0	2.6	2920	2050	2920	Lin	F	10.38	3.41	4.91	C	In receiving circuit of 71A1 level compensator of K and L1 carrier telephone system
				db	-	2.3	2.6	2.3	1.85	1.9							
217A	75 Unbal	Att	22	db	6.3	84	84	11	2	-	Lin	SW-20	5.16	3.41	4.91	C	In 318A equalizer (adjustable by 20 step rheostats)
				db	6.3	2880	2880	11.1	1.8	-							
217B	231; 53.8 Unbal	Att	22	db	5.5	286	286	10	2.1	-	Lin	SW-20	5.16	3.41	4.91	C	In 318A equalizer (adjustable by 20 step rheostats)
				db	5.5	1304	1304	9.1	2.5	-							
				db	5.5	2250	2250	9.4	2.3	-							
217C	53.8; 231 Unbal	Att	22	db	5.4	150	150	9.4	2.1	-	Lim	SW-20	5.16	3.41	4.91	C	In 318A equalizer (adjustable by 20 step rheostats)
				db	5.4	762	762	9.3	2.2	-							
				db	5.4	1800	1800	9.6	2.1	-							
217D	75 Unbal	Att	22	db	6.2	50	50	16.7	.9	-	Lin	SW-20	5.16	3.41	4.91	C	In 318A equalizer (adjustable by 20 step rheostats)
				db	6.2	2602	2602	12.2	1	-							
217E	75 Unbal	Att	22	db	4.1	390	390	9.5	.3	-	Lin	SW-20	5.16	3.41	4.91	C	In 318A equalizer (adjustable by 20 step rheostats)
				db	4.1	2450	2450	9.1	.5	-							
217F	75 Unbal	Att	10	db	-	556	1400	1.5	.1	-	Log	ST	5.16	3.41	4.91	C	In 318A equalizer (adjustable by strapping terminals)
				db	-	2040	3200	3.0	.1	-							
218A	75 Unbal	Att	22	db	4.1	1552	1552	9.4	.3	-	Lin	SW-20	6.91	3.41	4.94	C	In 318A equalizer (adjustable by 20 step rheostats)
				db	4.1	2945	2945	8.4	1	-							
218B	75 Unbal	Att	17	db	6.6	1000	1000	9.1	4.1	-	Lin	CC	6.91	3.41	4.94	C	In J68836B equalizer
				Usec	-	300	300	+08	-08	-							

Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
218C	75 Unbal	Att	23 20	db Usec	9.0 -	5000 800	5000 800	11.5 +1	6.6 -1	- -	Lin Lin	CO	6.91	3.41	4.94	C	In J68836A and C equalizers
218D	75 Unbal	Att	15	db	-	8000	1000	10.5	6.1	-	Lin	F	6.91	3.41	4.94	C	In J68836B and D equalizers and L3 repeaters
218E	75 Unbal	Att	15	db	-	8000	900	12.1	4.3	-	Lin	F	6.91	3.41	4.94	C	In J68836B and D equalizers and L3 repeaters
218F	75 Unbal	Att	18	db	12	100	100	16.2	8	-	Log	CO	6.91	3.41	4.94	C	In J68836 equalizer
218G	75 Unbal	Att	20	db	7.0	600	600	9.8	4.2	-	Lin	CO	6.91	3.41	4.94	C	In J68836 equalizer
218H	75 Unbal	Att	23	db	6.5	3700	3700	10.2	2.6	-	Lin	CO	6.91	3.41	4.94	C	In J68836 equalizer
218J	75 Unbal	Att	21	db	10.5	6000	6000	11.5	9.4	-	Lin	CO	6.91	3.41	4.94	C	In J68836 equalizer
219A	72 Unbal	Att	10	db	-	900	2400	4.92	4.0	-	Log	F	8.66	3.41	4.91	C	In 503A filter
219B	75 Unbal	Ph	8 5	deg db	- -	3000 3000	0 0	910 1.05	0 0	- -	Lin Lin	F	8.66	3.41	4.91	C	In J68768AA phase build-out network panel
226A	110 Bal	Att	1	db	-	50	4000	.84	.4	-	Log	F	3.41	1.66	4.91	C	In with J44102F video distribution amplifier
226B	75 Unbal	Att	14 14	db db	- -	556 2064	556 2064	1.5 3.0	0 0	- -	Log Log	ST-3 ST-3	3.41	1.66	4.91	C	A crystal equalizer in the 318A equalizer (adjustable by strapping terminals)
226C	175 Unbal	Att	22	db	6.1	3030	3030	10.9	2.0	-	Lin	SW-20	3.44	1.66	4.91	C	In 318A equalizer (adjustable by 20 step rheostats)
226J	75 Unbal	Att	22	db	2.5	4140	4140	3.2	1.85	-	Lin	CO	3.41	1.66	4.91	C	In J44104 television terminal
226K	75 Unbal	Att	22	db	2.5	4140	4140	3.02	2.0	-	Lin	CO	3.41	1.66	4.91	C	In J44104 television terminal
226L	75 Unbal	Att	23	db	3.0	9000	9000	5.35	.65	-	Lin	CO	3.41	1.66	4.91	C	In J44104 television terminal
226M	75 Unbal	Att	3	db	-	312	8353	10.5	.6	-	Lin	F	3.41	1.66	4.91	C	In J44104 television terminal

Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
226N	75 Unbal	Att	7	db	-	8353	312	10	0	-	Lin	F	3.41	1.66	4.91	C	In J44104 television terminal
226S	75 Unbal	Att	20	db	2.0	290	290	3.2	.85	-	Log	CO	3.41	1.66	4.91	C	In J68830 for color TV
226T	75 Unbal	Att	14	db	-	1850	2250	2.78	.38	-	Lin	F	3.41	1.66	4.91	C	In J68770 L1 terminal equip. in conjunction with 318A equalizer
226U	75 Unbal	Att	6 12	db Usec	- -	3000 2600	1000 2910	25 +.13	.5 -.4	- -	Lin Lin	F	3.41	1.66	4.91	C	In J68802AL switch panel
226W	75 Unbal	Att	20	db	1.27	3100	3100	1.73	.8	-	Lin	CO	3.41	1.66	4.91	C	In J68830 repeater
226Y	75 Unbal	Att	21	db	2.2	8500	8500	4.3	.5	-	Lin	CO	3.41	1.66	4.91	C	In J68830 repeater
226 AB	75 Unbal	Att	22	db	3.5	555	555	6.0	1	-	Lin	CO	3.41	1.66	4.91	C	In J68830A and J receiving bays
226 AC	75 Unbal	Att	18	db	3.5	300	300	6.2	.8	-	Lin	CO	3.41	1.66	4.91	C	In J68830A and J receiving bays
303A	75 Unbal	Del	9 Flat	Usec db	- -	800 50	3060 3100	18 (16.6nom)	5.2	-	Lin Lin	F	19.00	9.88	10.19	A	For television circuits
303B	75 Unbal	Del	9 Flat	Usec db	- -	800 50	3060 3100	18 (16.5nom)	5.6	-	Lin Lin	F	19.00	9.88	10.19	A	For television circuits
304A	75 Unbal	Del	9 Flat	Usec db	- -	800 50	3060 3100	9.4 (11.6nom)	3.2	-	Lin Lin	F	19.00	9.88	6.59	A	For television circuits
305A	75 Unbal	Del	9 Flat	Usec db	- -	800 60	3060 3100	4.5 (7.1nom)	1.9	-	Lin Lin	F	19.00	9.88	3.13	A	For television circuits
305B	75 Unbal	Del	9 Flat	Usec db	- -	800 50	3000 3100	2.5 (4.35nom)	1.4	-	Lin Lin	F	19.00	9.88	3.13	A	For television circuits
305C	75 Unbal	Del	1 Flat Flat	Usec db db	- - -	200 50 50	3000 3100 3100	2.8 (3.13nom) (2.13nom)	1.7	- - -	Lin Lin Lin	F	19.00	9.88	3.13	A	For television circuits
305D	75 Unbal	Del	5 Flat	Usec db	- -	2600 50	200 3100	2.6 (2.92nom)	2.0	-	Lin Lin	F	19.00	9.88	3.13	A	For television circuits

Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
306A	75 Unbal	Del	10	Usec	-	3200	-	1.24	0	-	Lin	SW-7	19.00	9.88	6.59	A	For television circuits (adjustable with keys)
			10	Usec	-	3430	-	1.12	0	-							
			10	Usec	-	3690	-	.32	0	-							
			10	Usec	-	44	-	21.3	0	-							
			10	Usec	-	38	-	12.1	0	-							
			10	Usec	-	37	-	21.7	0	-							
			10	Usec	-	29	-	41.3	0	-							
	Flat	db	-	50	3200	(2.4nom)	-	-	-								
307A	75 Unbal	Del	10	db	-	3250	3000	7.4	5.4	-	Lin	ST-11	19.00	9.88	5.22	A	For television circuits
			10	db	-	124	50	.58	.04	-							
			10	Usec	-	124	-	16.9	-	-							
			10	Usec	-	3200	-	6.7	-	-							
314A	75 Unbal	Att	-	-	-	-	-	-	-	-	SW-20	19.00	10.06	10.47	A	At television dropping points (adjustable by 56 rheostats)	
314B	75 Unbal	Att	-	-	-	-	-	-	-	-	SW-20	19.00	10.06	10.47	A	At television dropping points (adjustable by 56 rheostats)	
316A	75 Unbal	Att	10	db	-	2970 3080	3096 3096	7.8	0	-	Lin	SW-20	3.41	3.41	4.97	C	Adjustable (loss and frequency) equalizer for L1 coaxial lines
317A	75 Unbal	Att	-	-	-	-	-	-	-	-	SW-	19.00	11.13	12.13	A	As a main station equalizer (adjustable with 7-20 step rheostats and 5 keys)	
318A	75 Unbal	Att	-	-	-	-	-	-	-	-	SW-20	19.00	9.25	10.47	A	Consists of the 217A-F, 218A, and 226B and C equalizers (adjustable with 15-20 step rheostats)	
322A	124 Bal	Att	12	db	-	10	6500	2.26	.4	-	Log	ST-6	6.91	3.41	4.97	C	In TV terminals
323A	75 Unbal	Att	2	db	-	0	10000	2.85	.6	-	Lin	ST-6	5.16	3.41	4.91	C	In J68830B transmitting bay
324A	75 Unbal	Att	9	db	-	1500	1040	.74	.12	-	Lin	F	3.44	1.66	4.91	C	In J68829C and D transmitting and receiving panels
324B	75 Unbal	Att	9	db	-	1800	550	1.76	.25	-	Lin	F	3.44	1.66	4.91	C	In J68829F and G transmitting and receiving panels
324C	75 Unbal	Att	9	db	-	1900	550	2.3	.1	-	Lin	F	3.44	1.66	4.91	C	In J68829F and G transmitting and receiving panels
325A	75	Del	12 Flat	Usec db	-	3500	8600	.7 (2.57nom)	.4	-	Lin	F	19.06	9.50	3.16	A	In television line connecting equipment

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Code	Imped. Ohms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 1 KC							
325B	75 Unbal	Del	12 Flat	Usec db	-	3500	8600	1.1	.6	-	Lin	F	19.06	9.50	3.16	A	In television line connecting equipment
325C	75 Unbal	Del	12 Flat	Usec db	-	3500	8600	2.4	1.4	-	Lin	F	19.06	9.50	3.16	A	In television line connecting equipment
326A	75 Unbal	Del	1 Flat	Usec db	-	3500	8600	3.65	1.6	-	Lin	F	19.06	9.59	4.91	A	In television line connecting equipment
327A	75 Unbal	Del	1 Flat	Usec db	-	3500	8600	5.35	2.3	-	Lin	F	19.06	9.59	6.66	A	In television line connecting equipment
327B	75 Unbal	Del	1 Flat	Usec db	-	3500	8600	6.5	2.45	-	Lin	F	19.06	9.59	6.66	A	In television line connecting equipment
328A	75 Unbal	Del	1	Usec db	-	4000	8900	.18	.11	-	Lin	F	19.09	4.84	3.31	C	In J44104 television terminal equipment
			1	db	-	3500	8600	1.05	.35	-	Lin	F					
336A	75 Unbal	Att Del	-	-	-	-	-	-	-	-	-	SW	19.00	13.50	13.97	A	In J68830B and K transmitting bays (Provides 23 gain and 15 delay shapes (cosine), independently adjustable)
339A	75 Unbal	Att	1	db	-	300	2100	1.85	.13	-	Lin	F	5.16	1.69	3.50	C	In L3 carrier blocking of submaster group 2
339B	75 Unbal	Att	5	db	-	9000	3000	2.0	.1	-	Lin	F	5.16	1.69	3.50	C	In L3 carrier blocking of submaster group 2

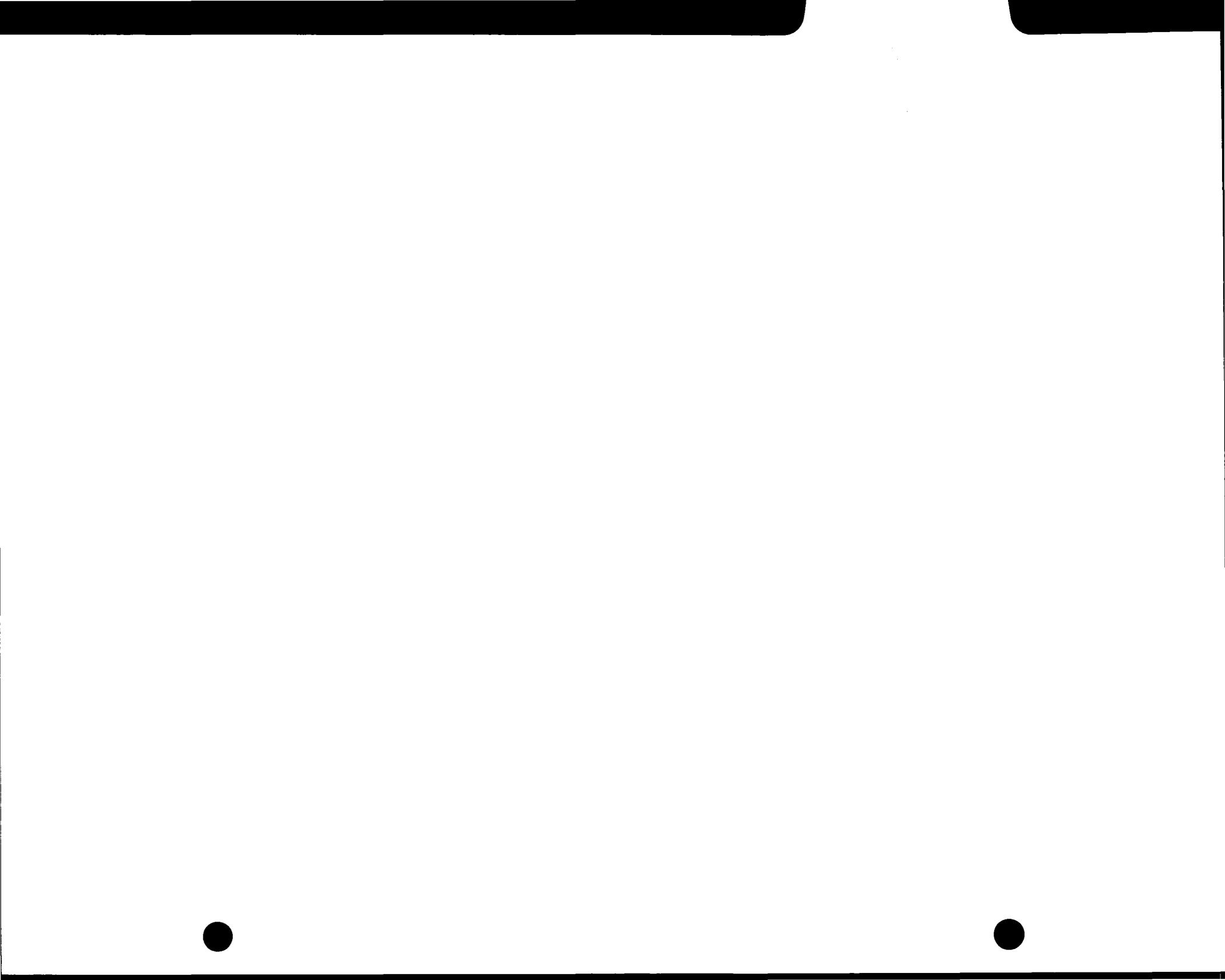




Code	Imped. Chms	Type	Fig.	Units	Performance Characteristics				Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay				L	W	H		
					Of Max Perf.	Of Lin Perf.	Max.	Min.							
308A	3000 Unbal	Att	3	db	130	300	15.4	6.1	Lin	F	2.00	1.56	3.44	C	In J98703G and J transmitting and receiving unit
308B	6000 Unbal	Att	3	db	130	300	9.4	.2	Lin	F	2.00	1.56	3.44	C	In J98703G and J transmitting and receiving unit
308C	3000 Unbal	Att	11	db	330	130	18	6	Lin	F	2.00	1.56	3.44	C	In J98703H and K transmitting and receiving unit
308D	6000 Unbal	Att	11	db	320	130	11.8	0	Lin	F	2.00	1.56	3.44	C	In J98703H and K transmitting and receiving unit
308E	3000 Unbal	Att	11 & 14	db	80	110	12.5	6.7	Lin	F	2.00	1.56	3.44	C	In J98703N panel
308F	6000 Unbal	Att	11 & 14	db	80	110	6.4	.65	Lin	F	2.00	1.56	3.44	C	In J98703N panel
308G	3000 Unbal	Att	11	db	145	110	15.1	7.5	Lin	F	2.00	1.56	3.44	C	In J98703N panel
308H	6000 Unbal	Att	11	db	145	113	9	1.3	Lin	F	2.00	1.56	3.44	C	In J98703N panel
340B	600 Unbal	Att	7	db	160	10	9.4	0	Lin	F	3.44	3.38	4.91	C	With the panoramic analyzer and spectrum generator to test the line facilities of the low and high group of the N and ON carrier system
340D	600 Unbal	Att	7	db	300	130	9.7	.1	Lin	F	3.44	3.38	4.91	C	With the panoramic analyzer and spectrum generator to test the line facilities of the low and high group of the N and ON carrier system



XIII
ON AND ON/
K CARB
SYS EQUALIZERS

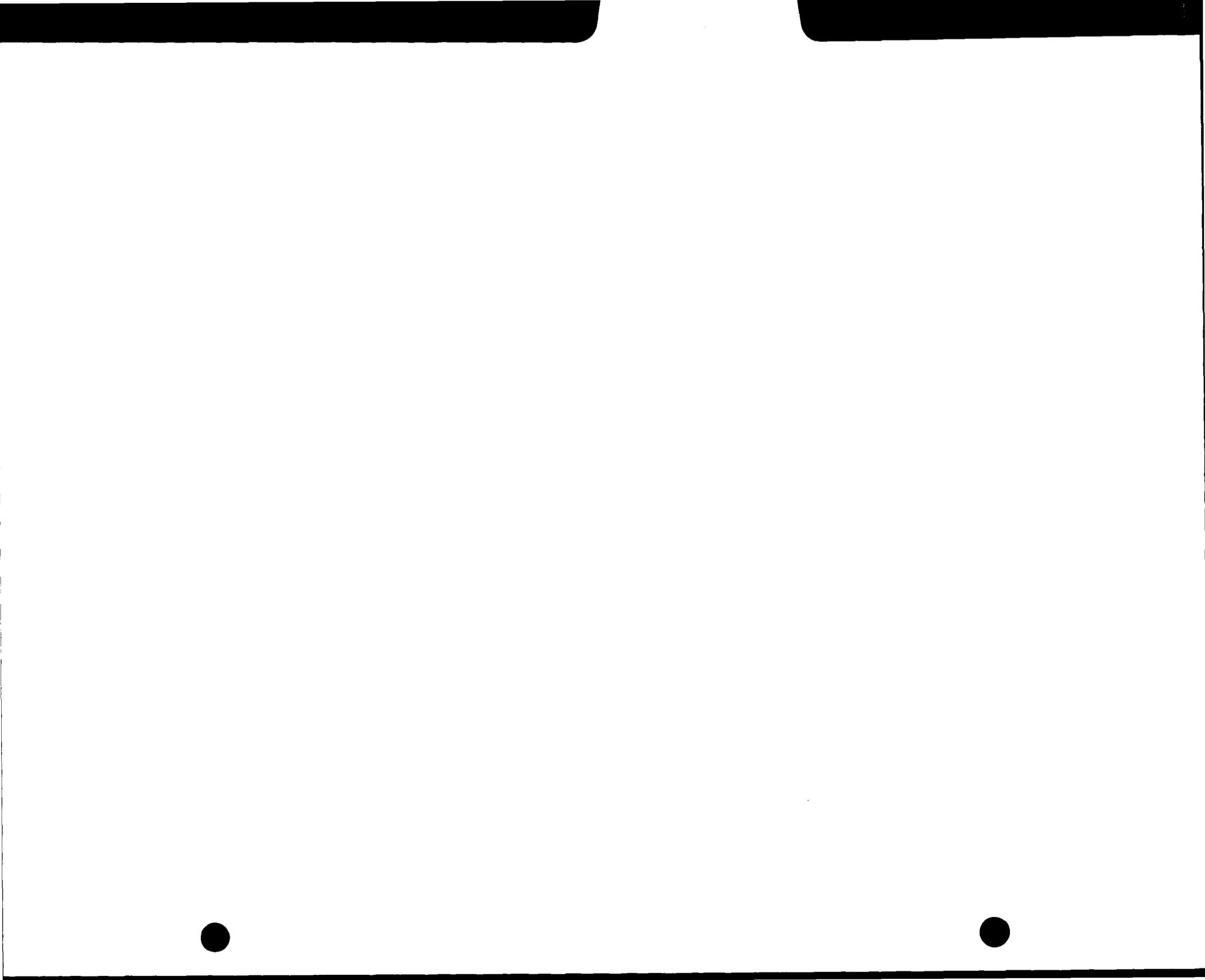


June 1961

Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics				Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay				L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.							
335A	3000 Unbal	Att	4	db	66	137	33.3	4	Lin	F	3.16	1.50	4.03	C	In J98709C transmitting amplifier of ON/K carrier system
340B	600 Unbal	Att	7	db	160	10	9.4	0	Lin	F	3.44	3.38	4.91	C	With the panoramic analyzer and spectrum generator to test the line facilities of the low and high group of the N and ON carrier system
340D	600 Unbal	Att	7	db	300	130	9.7	.1	Lin	F	3.44	3.38	4.91	C	With the panoramic analyzer and spectrum generator to test the line facilities of the low and high group of the N and ON carrier system

I-III





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Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics				Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay				L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.							
337A	600 Unbal	Att	2	db	8	100	16	2.3	Lin	F	3.00	1.70	1.13	C	As line loss equalizer in P1 rural carrier system repeater
337B	600 Unbal	Att	3	db	8	100	11.2	2.7	Lin	F	3.00	1.70	1.13	C	As line loss equalizer in P1 rural carrier system repeater
337C	600 Unbal	Att	2	db	9	100	22	.1	Lin	F	3.00	1.70	1.13	C	As line loss equalizer in P1 rural carrier system repeater





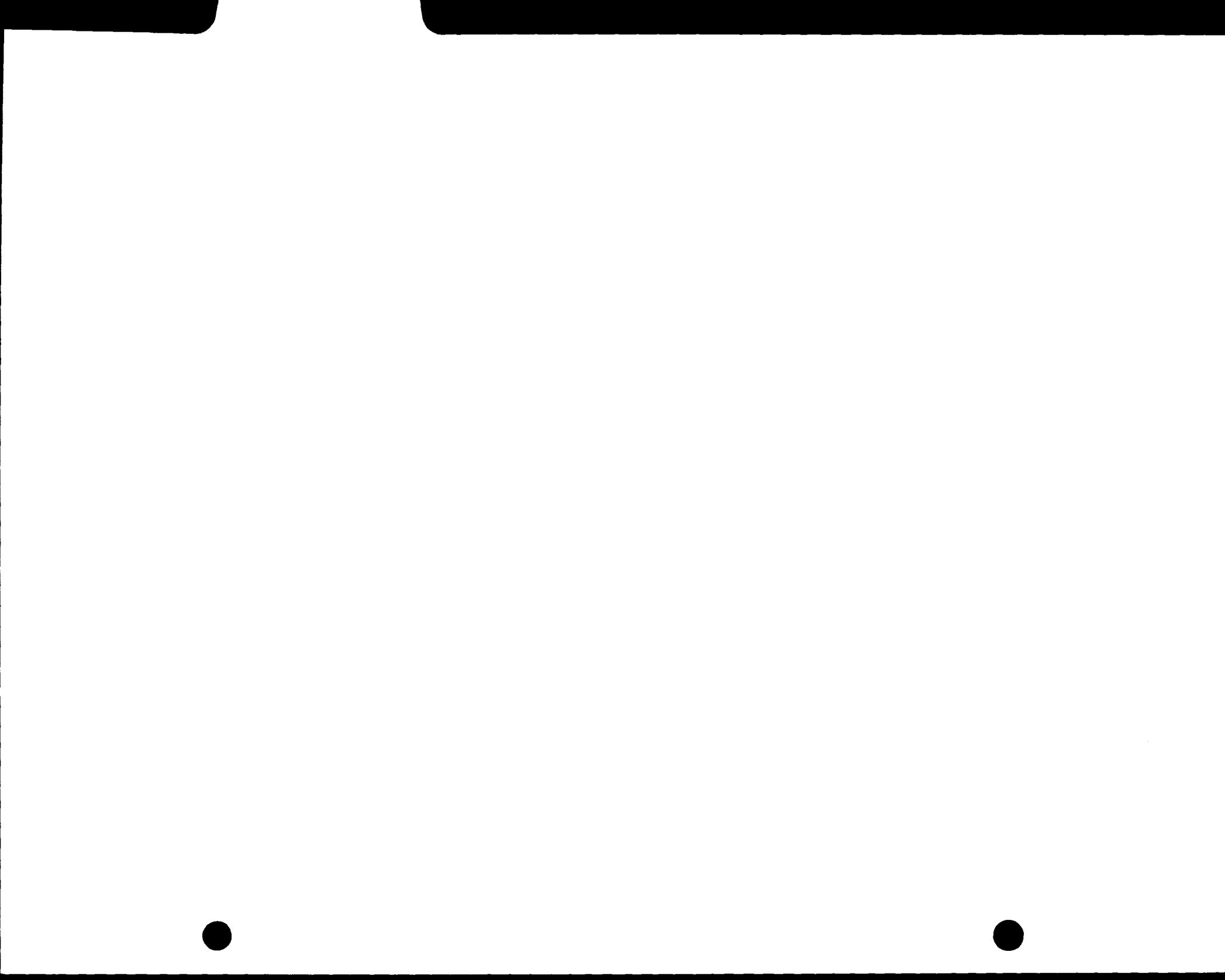
Code	Imped. Ωms	Type	Fig.	Units	Ref Level db	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
						Freq. KC		Loss-Delay					L	W	H		
						Of Max Perf.	Of Min Perf.	Max.	Min.	At 70 Mc							
226P	75 Unbal	Att	19	db	5.5	5	5	9.9	1.3	-	Log	CO	3.41	1.66	4.91	C	In J44100 A2 video system amplifier in transmission of color TV over TD-2 facilities
226R	124 Bal	Att	19	db	5.5	5	5	9.4	1.3	-	Log	CO	3.41	1.66	4.91	C	In TD-2 radio terminal bay for color TV transmission
315A	75 Unbal	Del	10	musec	-	71	60	0	-20	-.2	Lin	F	6.06	4.34	2.09	C	In J68331 repeater bay
			Flat	db	-	60	80	(.6nom)	.6	Lin							
319A	75 Unbal	Del	8	musec	-	78	63	+14	-12	0	Lin	F	4.00	2.00	4.50	C	To mop up slope delay distortion
			Flat	db	-	60	80	(.5nom)	.4	Lin							
319B	75 Unbal	Del	4	musec	-	63	80	+10	-17	0	Lin	F	4.00	2.00	4.50	C	To mop up slope delay distortion
			Flat	db	-	60	80	(.4nom)	.4	Lin							
319C	75 Unbal	Del	4	musec	-	63	80	+6	-8.5	0	Lin	F	4.00	2.00	4.50	C	To mop up slope delay distortion
			Flat	db	-	60	80	(.3nom)	.3	Lin							
345A	75 Unbal	Att	10	db	-	70	65 75	8	6 6	8	Lin	F	5.22	1.66	3.50	C	In J68378A IF equalization bay
345B	75 Unbal	Att	10	db	-	70	65 75	4	3 3	4	Lin	F	5.22	1.66	3.50	C	In J68378A IF equalization bay
345C	75 Unbal	Att	10	db	-	70	65 75	2	1.5 1.5	2	Lin		5.22	1.66	3.50	C	In J68378A IF equalization bay





IF RADIO STS
EQUALIZERS

XVI

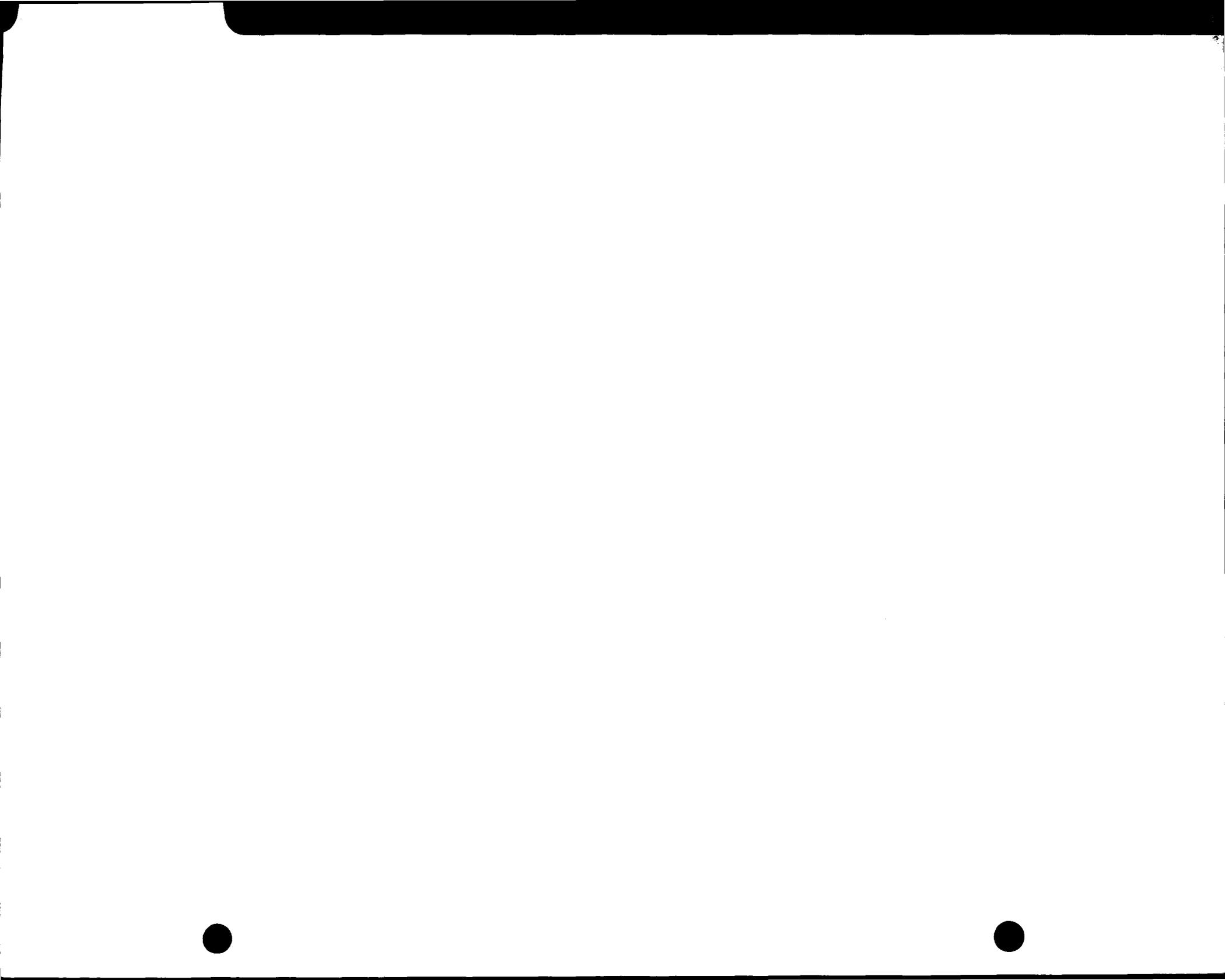


June 1961

Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 65.5 Mc							
338A	75 Unbal	Del	10	musec	65	60 70	0	-36.5 -17.0	-.2	Lin	F	6.97	1.66	3.50	C	In J41617 TE-R2 radio systems receiver

I-IV-1





June 1961

Code	Imped. Ohms	Type	Fig.	Units	Performance Characteristics					Log or Lin	Steps	Dimensions-Inches			Mtg	Used
					Freq. KC		Loss-Delay					L	W	H		
					Of Max Perf.	Of Min Perf.	Max.	Min.	At 74Mc							
338B	75 Unbal	Del	4 Flat	musec db	58 58	90 90	40.4 (2.7)	10.1 nom)	- -	Lin Lin	F	6.97	1.66	3.50	C	In J68402 receiver
338C	75 Unbal	Del	8 Flat	musec db	90 58	58 90	40.4 (3.0)	10.4 nom)	- -	Lin Lin	F	6.97	1.66	3.50	C	In J68402 receiver
343A	75 Unbal	Del	8 Flat	musec db	90 58	58 90	82 (2.7)	19 nom)	- -	Lin Lin	F	8.72	1.66	3.50	C	In J68402 receiver
343B	75 Unbal	Del	4 Flat	musec db	58 58	90 90	83 (2.8)	20 nom)	- -	Lin Lin	F	8.72	1.66	3.50	C	In J68402 receiver
346A	75 Unbal	Att	4 4	db deg	54.13 54.13	94.13 94.13	3.5 41	.6 13	2.20 -	Lin Lin	F	5.13	1.72	3.50	C	To provide equalization at IF for coaxial cables used at entrance links:"10 db" length
346B	75 Unbal	Att	4 4	db deg	54.13 54.13	94.13 94.13	9.1 87	3.9 49	6.35 -	Lin Lin	F	5.13	1.72	3.50	C	To provide equalization at IF for coaxial cables used at entrance links:"20 db" length
346C	75 Unbal	Att	4 4	db deg	54.13 54.13	94.13 94.13	10 160	2 70	6.01 -	Lin Lin	F	5.13	1.72	3.50	C	To provide equalization at IF for coaxial cables used at entrance links:"30 db" length
347A	75 Unbal	Att	4 4	db deg	54.13 54.13	94.13 94.13	12 215	1.8 93	6.87 -	Lin Lin	F	6.63	1.72	3.50	C	To provide equalization at IF for coaxial cables used at entrance links:"40 db" length

1-IIAX

