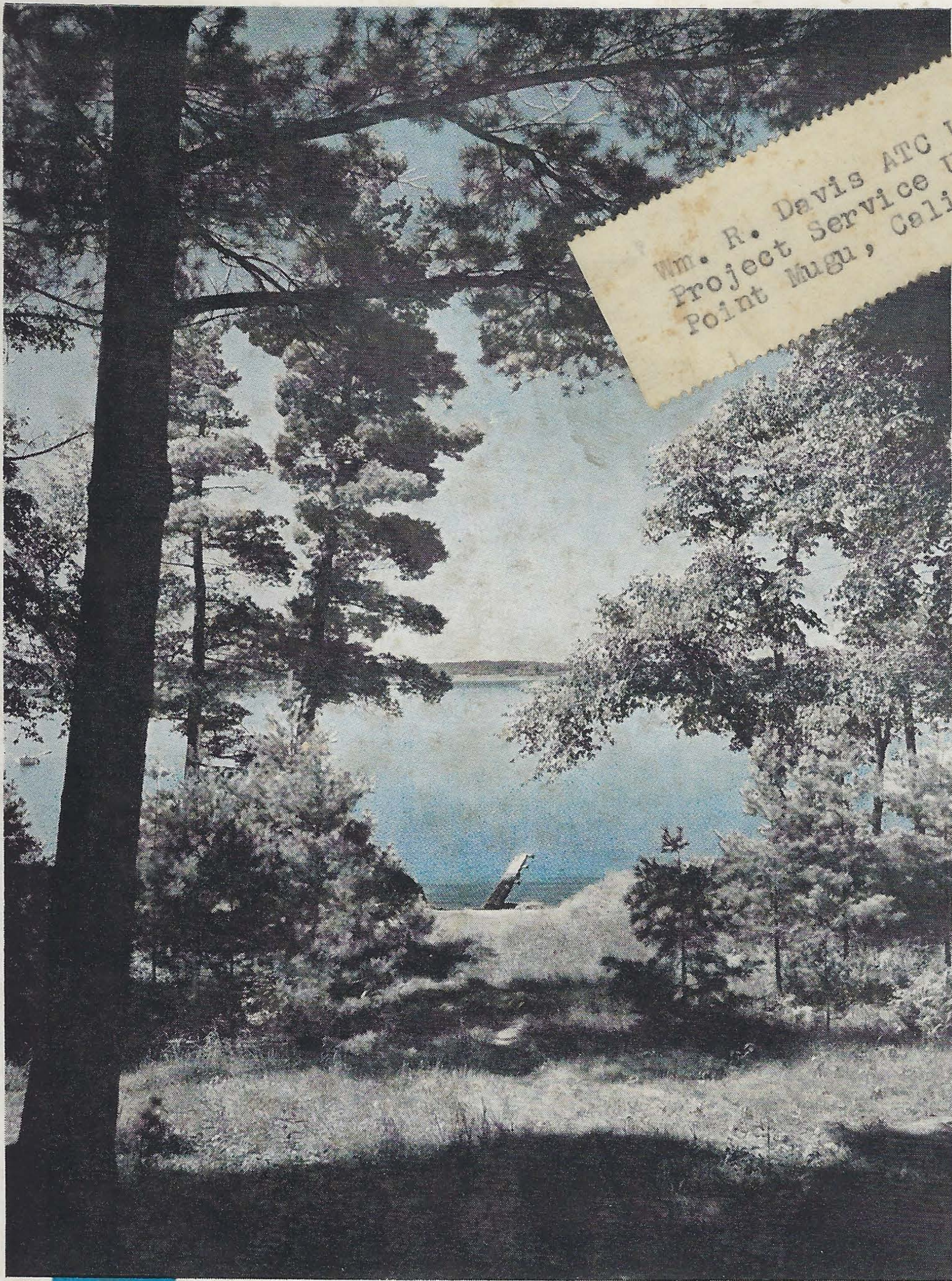




Transformers



2833
8-49
Wm. R. Davis ATC USN
Project Service USNAMTC
Point Mugu, Calif.

CATALOG
No. 49A

Bill Davis

"Audio Develops the Finest"



Audio DEVELOPMENT COMPANY

2833 THIRTEENTH AVENUE SOUTH • MINNEAPOLIS 7, MINNESOTA

Season's Greetings

December 6, 1949

Dear Friend:

It is appropriate that our message of greeting should convey to you the new ADC Catalog No. 49-A. Although it has been delayed longer than we had desired, we hope you will find it convenient to use as a source of reliable information whenever you may want high quality audio transformers and related components.

If your favorite radio parts jobber does not stock the ADC line, we suggest that you communicate with the nearest representative, as determined from the list in the forepart of the catalog, or you may write directly to the factory.

It is our hope that the Christmas Season will bring you great happiness, and that the New Year will be one of personal profit and advancement.

Yours very truly,

AUDIO DEVELOPMENT COMPANY

Eric R. Slayton

Eric R. Slayton
Sales Manager

GREETINGS FROM ADC

This catalog presents a few of the many hundreds of transformers designed by **ADC** to meet the exacting requirements of electronic audio engineers, broadcast and wired music studio engineers and others who demand top quality components at reasonable prices. The units listed in this catalog have been selected as suitable for a stock program. Certain items listed in previous catalogs have been discontinued, others have been included. In addition to the well established **QUALITY PLUS** and **INDUSTRIAL** series, you will find herein the new **YEOMAN** line, which has been made available in response to requests for **ADC** quality transformers in a lower price range. This will be of particular interest to jobbers who recognize the importance of a broad line of quality merchandise, backed by fair sales policies.

All **ADC** transformers are carefully checked during production and upon completion of manufacture each unit is subjected to thorough tests before being pronounced fit for packing. Ratings shown for the various transformers are conservative and therefore confidently guaranteed. All materials used in the construction of **ADC** components are of the finest grade obtainable

for the purpose. **ADC** employees take justifiable pride in their craft and each shares the spirit of cooperation which has been so instrumental in building the **ADC** name. The combination of good materials and careful workmanship naturally results in finished products conforming exactly with specifications.

ADC design engineers are fully qualified by training and experience to develop specifications for all types of audio and related power transformers, reactors, filters and other electronic components or complete equipment. You are urged to place your problems before these capable engineers whom you will find courteous, resourceful and entirely competent. Advance development and research into ways and means for improvement of electronic techniques keep **ADC** abreast of the progressive thinkers in the industry.

ADC frankly solicits your business whether it be large or small, stock or special units, open types, cased types, hermetically sealed types or those conforming with the various specifications of the Armed Services; we are qualified to serve you and proud of the privilege.

ADC REPRESENTATIVES

- EDWARD F. AYMOND.....Telephone Lakeside 1022.....Texas
4310 Maple Avenue, Dallas 9, Texas
- LEROY W. BEIER & COMPANY.....Telephone Harrison 7-4240.....Michigan, Southern Wisconsin,
600 South Michigan Avenue, Chicago 5, Illinois.....Illinois, Indiana, Eastern Iowa
- MAURY E. BETTIS COMPANY.....Telephone Logan 9545.....Nebraska, Kansas, Oklahoma,
3119 Gillham Road, Kansas City 3, Missouri.....Western Iowa, Missouri
- BURLINGAME ASSOCIATES.....Telephone Digby 9-1240.....New England, New York,
103 Lafayette Street, New York 13, New York.....Maryland, Delaware, New Jersey,
.....Eastern Pennsylvania, Virginia-
.....Arlington & Fairfax, Washington, D. C.
- GEORGE W. DAVIS.....Telephone Richmond 6191.....Southern California, Arizona
1406 South Grand Avenue, Los Angeles, California
- M. P. ODELL COMPANY.....Telephone Prospect 6171.....Ohio, Western Pennsylvania
2536 Euclid Avenue, Cleveland 15, Ohio
- A. J. WARNER.....Telephone Drexel 1895.....North Dakota, South Dakota,
5022 29th Avenue South, Minneapolis 6, Minnesota.....Minnesota, Northern Wisconsin,
.....North Delta Michigan

ADC

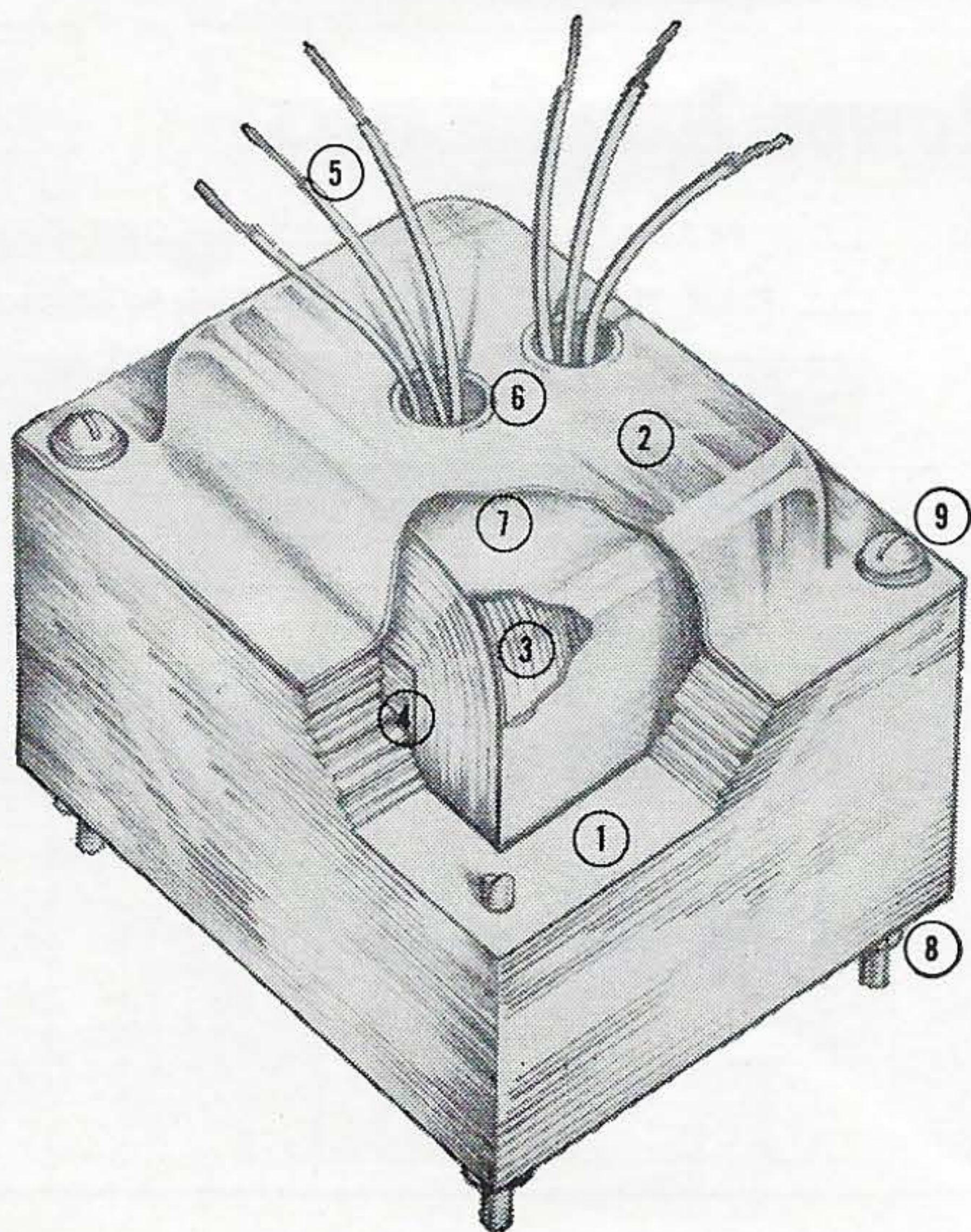
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(Prices subject to change without notice)

ADC

YEOMAN HALF SHELL REPLACEMENT



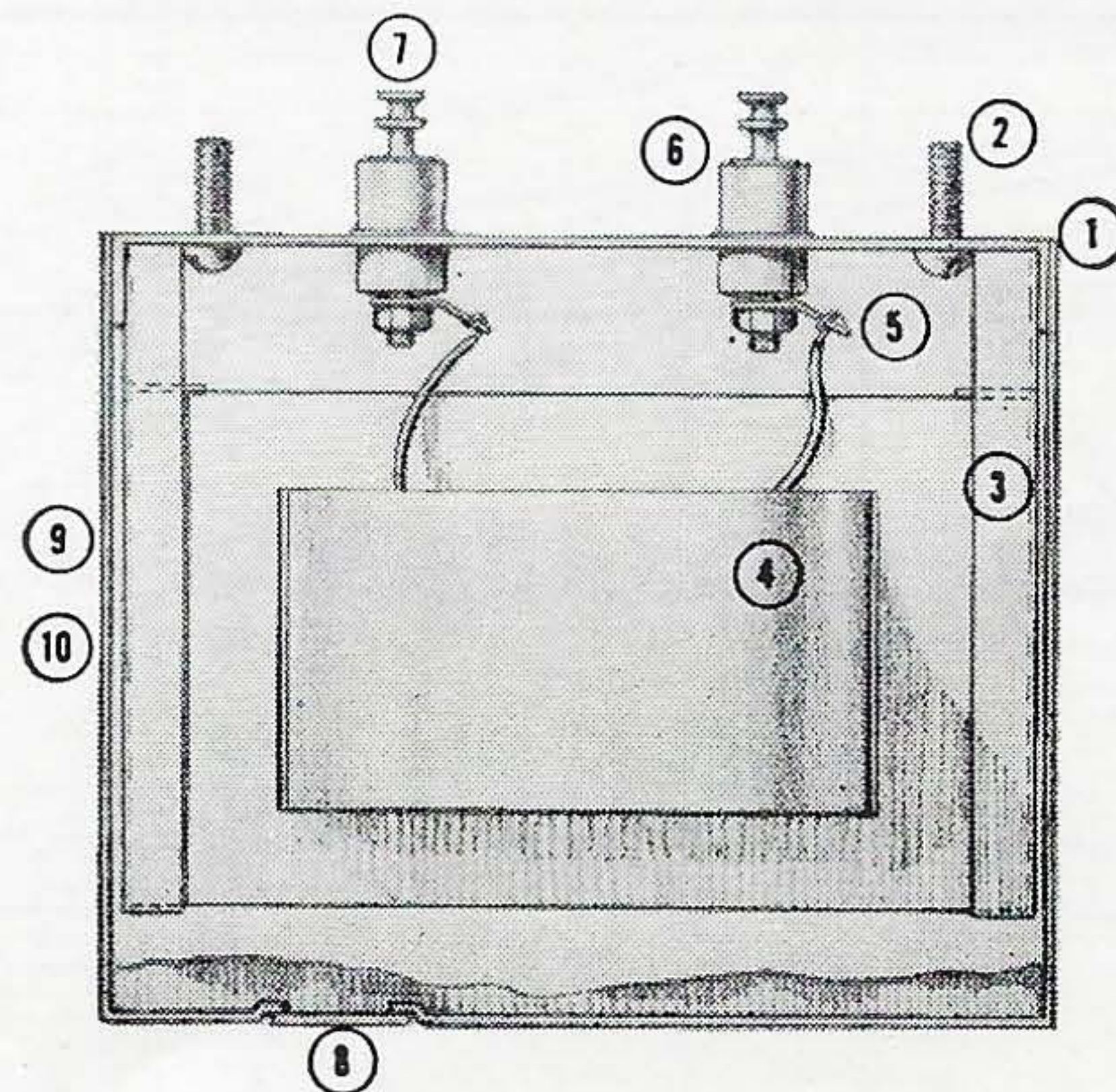
FEATURES OF ADC YEOMAN

1. Low Operating Temperature—core guaranteed to run below 40°C. Handle them in comfort.
2. Radiated Heat—black enamel shields aid in dissipation of internal heating.
3. Vacuum Impregnation—high insulation promotes long life—minimizes heating.
4. Vibration Blocks—no noise during operation.
5. Lead Wires—finest quality, long leads will not crack or break down; ends skinned to facilitate connections.
6. Lead Ports—rolled edges prevent chafing of lead wires—meets UL.
7. Mechanical Dimensions—carefully planned—no squeezed coils or rattling cores—core windows all properly filled.
8. Mounting Bolts—long lengths, heavily zinc plated to prevent rust—lock washers provided under hex. nuts.
9. Core Losses—insulating washers under bolt heads reduce core losses from circulating currents.

FEATURES OF SPECIAL CONSTRUCTION

1. Steel Case and Cover—electro tin-plated and all joints soldered to assure hermetic seal.
2. Mounting Studs—silver soldered to cover (base optional).
3. Core and Coil—firmly attached to mounting surface.
4. Impregnation—highest quality varnish, vacuum applied.
5. Potting Compound—filling leaves adequate space for expansion—no split cases.
6. Ceramic Bushings—special **ADC** design, steel spring maintains correct pressure on neoprene seal.
7. Stud—double turret type of silver plated brass with lead wire and nut soldered in place.
8. Filler Slug—soldered into position.
9. Primer and Paint Finish—fungicidal treatment is available.
10. Electrical Rating and Terminal—identification screened permanently on case.

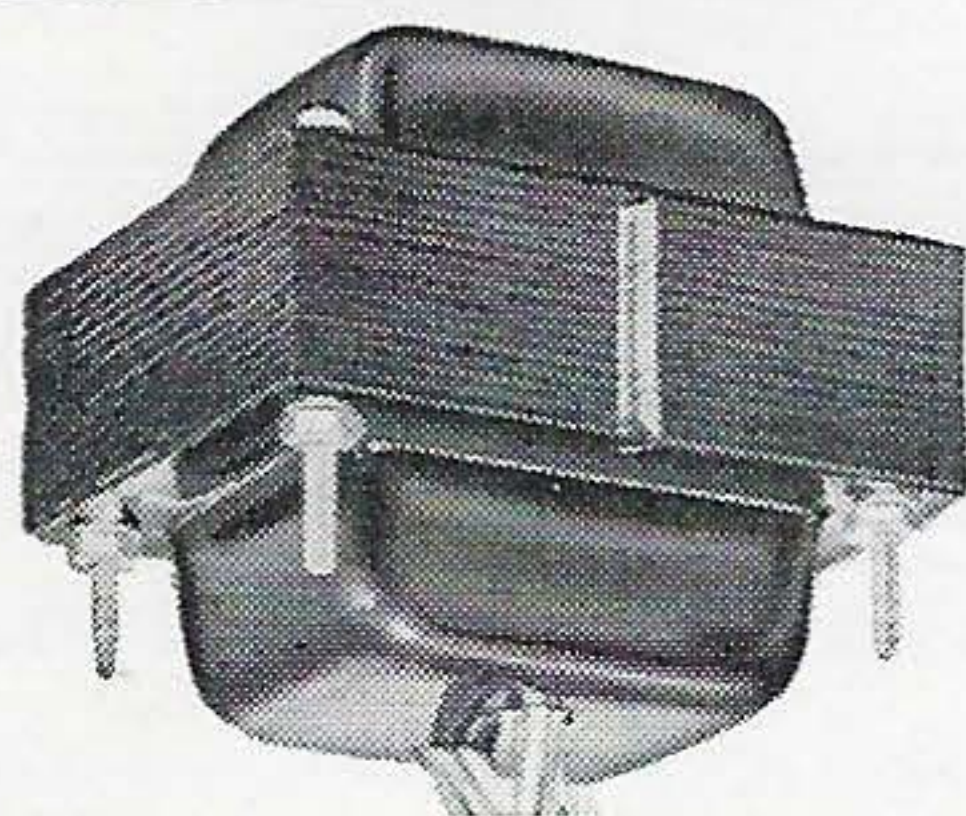
TYPICAL HERMETIC SEAL CONSTRUCTION

**ADC**

"AUDIO DEVELOPS THE FINEST"

YEOMAN TRANSFORMERS

ADC

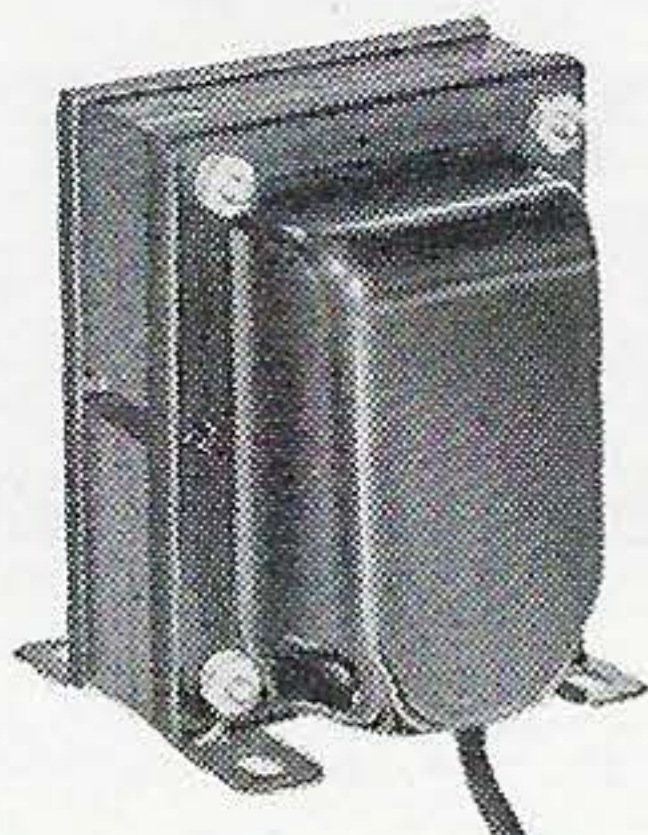


Half Shell Replacement Type Power Transformers

Primary 117V 50/60 cycles. Attractive black enamel finish. Meets RMA temperature limits. Winding temperature rise 55°C. maximum.

A complete line of high quality power transformers ideal for new equipment, or replacement service.

Catalog No.	List Price	Primary VA	SECONDARY #1			Sec. # 2 V-A	Sec. # 3 V-A	DIMENSIONS					Wt. Lbs.
			RMS Volts	MA DC Cond.	MA DC Choke			Overall			Mounting		
								W	L	H	W	L	
517D	6.00	44	240-0-240	40	60	5@2	6.3@1.6	2 1/2	3	2 1/2	2	2 1/2	2
517E	6.25	54	325-0-325	40	60	5@2	6.3@2.0	2 1/2	3	2 5/8	2	2 1/2	2 1/4
517F	7.15	85	300-0-300	80	120	5@2	6.3@3.0	2 1/2	3	2 3/4	2	2 1/2	2 3/4
517G	7.50	95	350-0-350	80	120	5@3	6.3@3.0	2 7/8	3 3/8	3 1/8	2 1/4	2 13/16	3 1/4
517H	8.75	115	300-0-300	125	185	5@3	6.3@4.5	3 1/8	3 3/4	3 5/16	2 1/2	3 1/8	4 1/2
517J	8.75	128	350-0-350	125	185	5@3	6.3@4.5	3 1/8	3 3/4	3 5/16	2 1/2	3 1/8	4 1/2
517K	10.20	140	325-0-325	160	240	5@3	6.3@5.0	3 1/8	3 3/4	3 11/16	2 1/2	3 1/8	5 1/2
517L	10.40	164	400-0-400	160	240	5@3	6.3@5.0	3 7/16	4 1/8	3 9/16	2 3/4	3 7/16	6
517M	11.40	175	350-0-350	200	300	5@3	6.3@5.5	3 1/4	4 1/2	3 13/16	3	3 3/4	7 1/4
517N	13.70	200	400-0-400	200	300	5@3	6.3@5.5	3 3/4	4 1/2	4 1/16	3	3 3/4	8 1/2



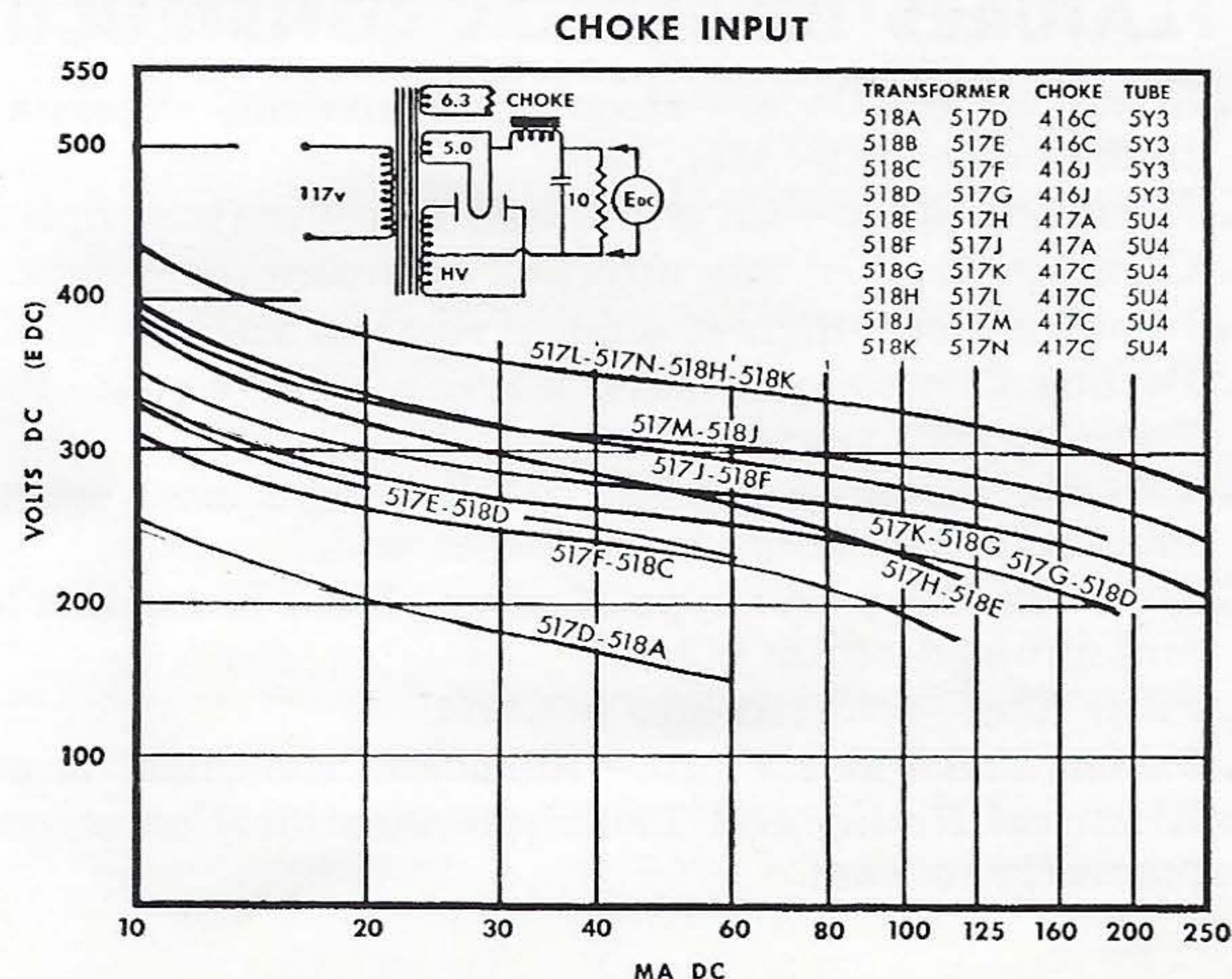
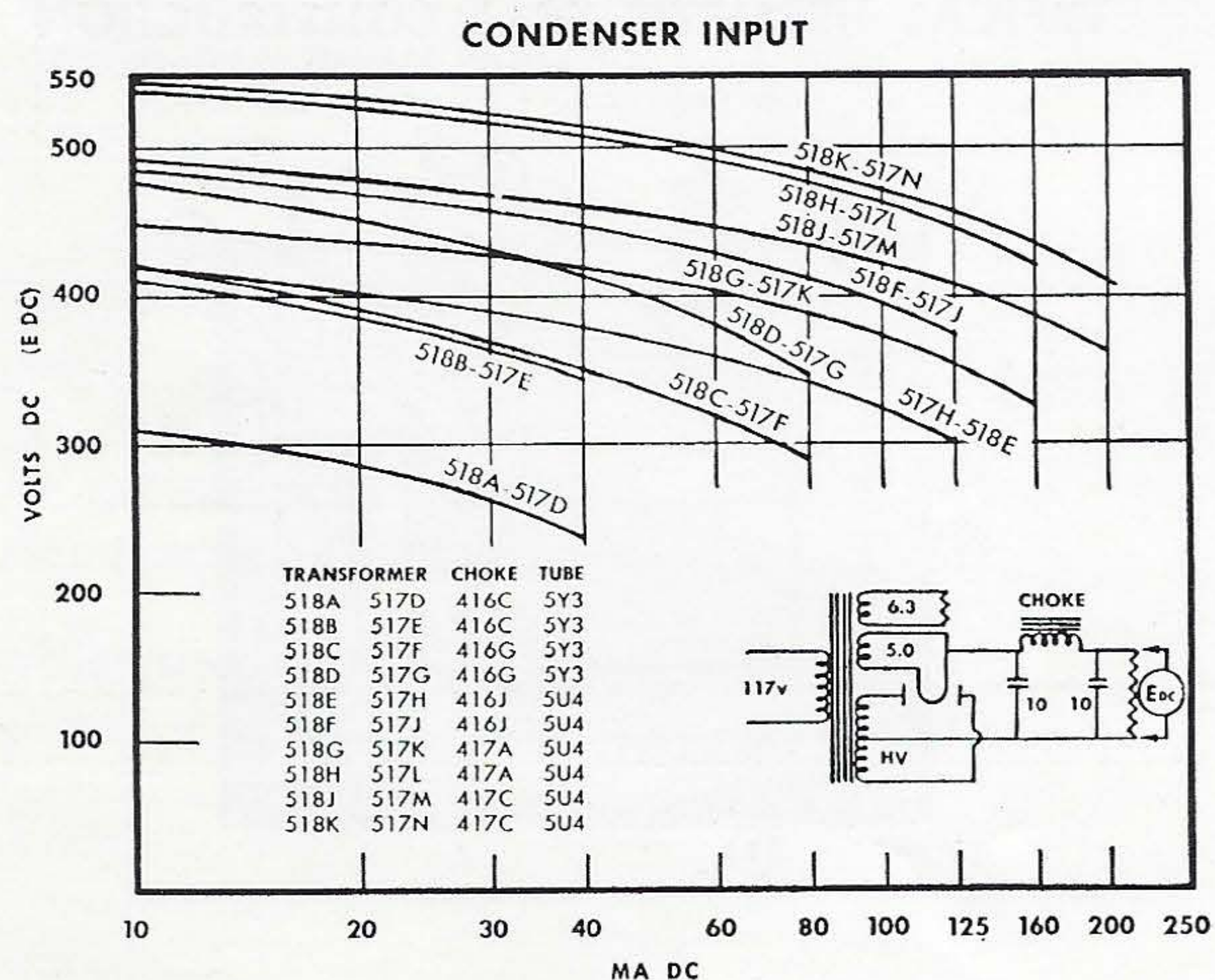
Vertical Shield Power Transformers

Primary 117V 50/60 cycles. Attractive black enamel finish. Meets RMA temperature limits. Winding temperature rise 55°C. maximum.

This series has electrical ratings equivalent to the half shell type. Vertical shield mountings are provided with generous lead lengths.

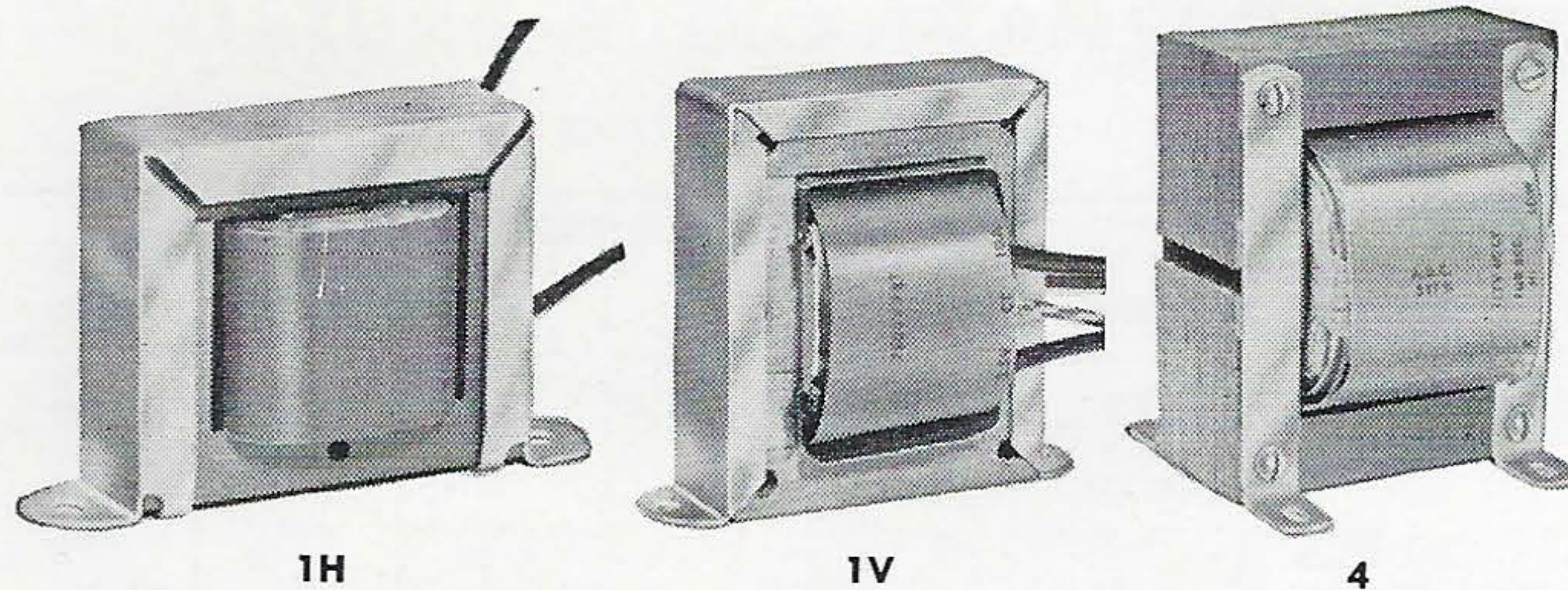
Catalog No.	List Price	Primary VA	SECONDARY #1			Sec. #2 V-A	Sec. #3 V-A	DIMENSIONS					Wt. Lbs.
			RMS Volts	MA DC Cond.	MA DC Choke			Overall			Mounting		
								W	L	H	W	L	
518A	6.00	44	240-0-240	40	60	5@2	6.3@1.6	2 ⁵ / ₈	2 ¹ / ₂	3 ¹ / ₈	2	1 ¹ / ₂	2
518B	6.25	54	325-0-325	40	60	5@2	6.3@2.0	2 ⁵ / ₈	2 ⁵ / ₈	3 ¹ / ₈	2	1 ⁵ / ₈	2 ¹ / ₄
518C	7.15	85	300-0-300	80	120	5@2	6.3@3.0	2 ⁵ / ₈	2 ⁷ / ₈	3 ¹ / ₈	2	2	2 ³ / ₄
518D	7.50	95	350-0-350	80	120	5@3	6.3@3.0	2 ¹⁵ / ₁₆	3 ¹ / ₄	3 ⁹ / ₁₆	2 ¹ / ₄	2	3 ¹ / ₄
518E	8.75	115	300-0-300	125	185	5@3	6.3@4.5	3 ¹ / ₄	3 ³ / ₈	3 ⁷ / ₈	2 ¹ / ₂	2 ³ / ₁₆	4 ¹ / ₂
518F	8.75	128	350-0-350	125	185	5@3	6.3@4.5	3 ¹ / ₄	3 ³ / ₈	3 ⁷ / ₈	2 ¹ / ₂	2 ³ / ₁₆	4 ¹ / ₂
518G	10.20	140	325-0-325	160	240	5@3	6.3@5.0	3 ¹ / ₄	3 ¹³ / ₁₆	3 ⁷ / ₈	2 ¹ / ₂	2 ⁹ / ₁₆	5 ¹ / ₂
518H	10.40	164	400-0-400	160	240	5@3	6.3@5.0	3 ⁹ / ₁₆	3 ³ / ₄	4 ¹ / ₄	2 ³ / ₄	2 ¹³ / ₁₆	6
518J	11.40	175	350-0-350	200	300	5@3	6.3@5.5	3 ⁷ / ₈	3 ⁷ / ₈	4 ⁵ / ₈	3	2 ⁷ / ₈	7 ¹ / ₄
518K	13.70	200	400-0-400	200	300	5@3	6.3@5.5	3 ⁷ / ₈	4 ¹ / ₈	4 ⁵ / ₈	3	3	8 ¹ / ₂

DC VOLTS VS LOAD CURRENT FOR ABOVE TRANSFORMERS





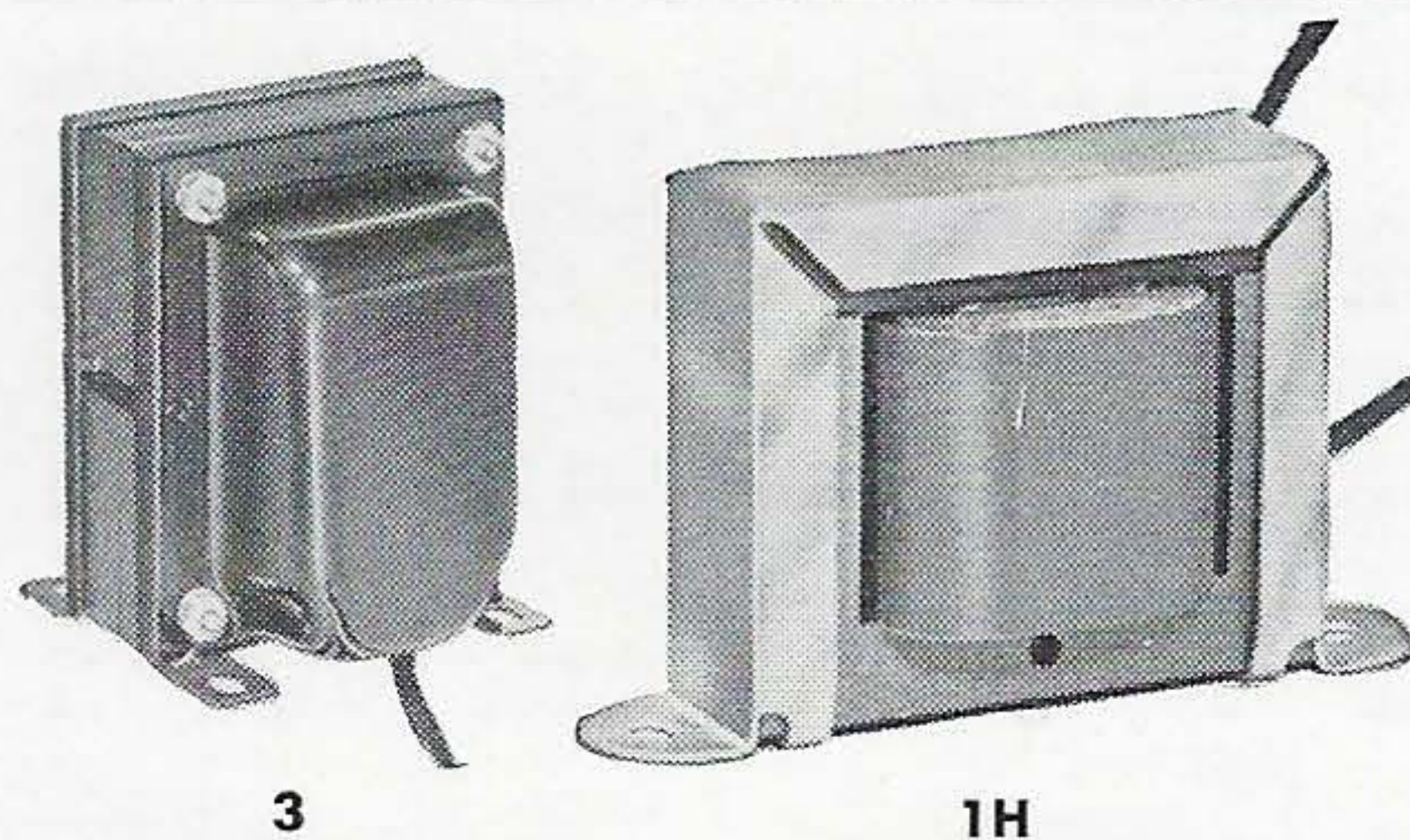
YEOMAN TRANSFORMERS



Filament Transformers

Primary 117V 50/60 cycles.
Winding temperature rise 45°C. maximum.
Vacuum impregnated for quiet operation and long life.
Compact open type construction.
All metal parts fully protected from corrosion.
Winding data printed on side of coil.

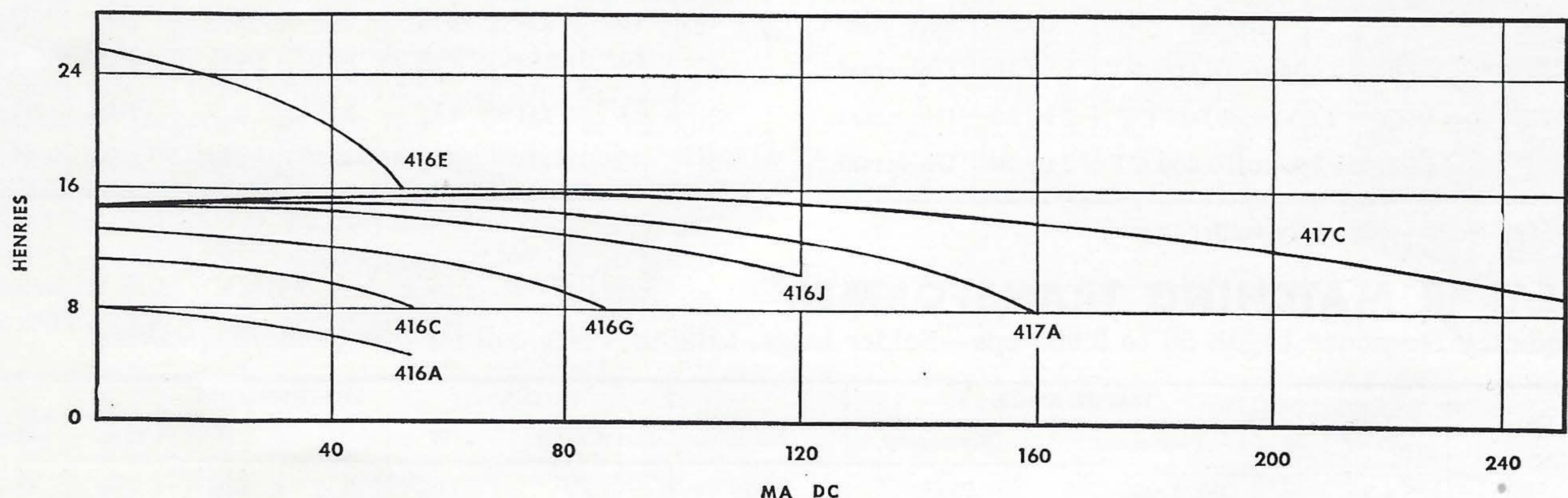
Cat. No.	List Price	Primary VA	SECONDARY		Test Volts	Case	DIMENSIONS					Wt. Lbs.
			Volts	Amps.			Overall			Mountings		
							W	L	H	W	L	
516A	3.30	16.5	2.5V CT	@ 5.0	1500	1V	1 ³ / ₄	2 ⁷ / ₈	2 ⁵ / ₁₆	.....	2 ³ / ₈	1
516B	5.80	35	2.5V CT	@ 10.0	7500	1V	2 ¹ / ₄	3 ⁹ / ₁₆	3 ¹ / ₁₆	.....	3 ¹ / ₁₆	2 ¹ / ₄
516C	3.75	21	5.0V CT	@ 3.0	1500	1V	1 ³ / ₄	2 ⁷ / ₈	2 ⁵ / ₁₆	.....	2 ³ / ₈	1
516D	5.75	65	5.0V CT	@ 10.0	3000	1V	2 ¹ / ₄	3 ⁹ / ₁₆	3 ¹ / ₁₆	.....	3 ¹ / ₁₆	2 ¹ / ₄
516E	2.75	10	6.3V CT	@ 1.0	1500	1H	1 ¹ / ₂	2 ³ / ₈	1 ³ / ₈	.....	2	1 ¹ / ₂
516F	3.60	28	6.3V CT	@ 3.0	1500	1H	1 ³ / ₄	3 ³ / ₈	2	.....	2 ¹³ / ₁₆	1
517A	6.75	80	6.3V CT	@ 10.0	1500	4	2 ¹³ / ₁₆	2 ³ / ₄	3 ¹ / ₂	2 ¹ / ₄	2 ¹ / ₈	3 ¹ / ₄
517B	8.50	135	10/11V CT	@ 10.0	1500	4	3 ¹ / ₈	3 ¹ / ₈	3 ³ / ₄	2 ¹ / ₂	2 ¹ / ₂	5



Chokes

These power supply chokes are suitable for input or second filter chokes in new construction or replacement service.
Vacuum impregnation assures quiet operation and long life.
Low temperature rise at full current.
Inductance measured by bridge method at rated DC, 50 Volts RMS 60 cycles.

Cat. No.	List Price	Henries	MA DC	DC Ohms	RMS Test Volts	Case	DIMENSIONS					Wt. Lbs.
							Overall			Mountings		
							W	L	H	W	L	
416A	1.60	4.5	50	225	1500	1H	1 $\frac{1}{8}$	2 $\frac{3}{8}$	1 $\frac{3}{8}$	.....	2	1 $\frac{1}{2}$
416C	1.75	8.5	50	370	1500	1H	1 $\frac{1}{4}$	2 $\frac{13}{16}$	1 $\frac{11}{16}$	.....	2 $\frac{3}{8}$	3 $\frac{3}{4}$
416E	2.50	16	50	490	1500	1H	1 $\frac{3}{4}$	3 $\frac{1}{4}$	2	.....	2 $\frac{13}{16}$	1 $\frac{1}{4}$
416G	2.50	8	85	330	1500	1H	1 $\frac{3}{4}$	3 $\frac{1}{4}$	2	.....	2 $\frac{13}{16}$	1 $\frac{1}{4}$
416J	2.90	10	120	240	1500	1H	1 $\frac{3}{4}$	3 $\frac{3}{4}$	2 $\frac{1}{4}$	.....	3 $\frac{1}{8}$	1 $\frac{1}{2}$
417A	4.25	8	160	150	1500	3	2 $\frac{5}{8}$	2 $\frac{13}{16}$	3 $\frac{3}{16}$	1 $\frac{13}{16}$	2	2 $\frac{1}{2}$
417C	8.00	9	250	120	2000	3	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{15}{16}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	4



"AUDIO DEVELOPS THE FINEST"

YEOMAN TRANSFORMERS

ADC

INTERSTAGE TRANSFORMERS

Frequency Response 1½db 50 to 12,000 cps.

Cat. No.	List Price	APPLICATION		Ratio P to S	Primary MA DC	Case	DIMENSIONS				Wt. Lbs.
		Primary	Secondary				W	L	H	Mtg.	
211A*	10.00	6J5 etc.	PP Cl. A Grids 6L6-2A3 etc.	1 to 2	0	12	1 ¹⁵ / ₁₆	.....	2 ⁷ / ₁₆	1 ¹³ / ₁₆	½
211B*	10.00	PP 6J5 etc.	PP Cl. A Grids 6L6-2A3 etc.	1 to 1	10 MA Bal.	12	1 ¹⁵ / ₁₆	.....	2 ⁷ / ₁₆	1 ¹³ / ₁₆	½
216A	4.00	6J5	PP6L6-Cl.-AB2	1¼ to 1	8	1V	1½	2 ⁷ / ₈	2 ⁵ / ₁₆	2 ³ / ₈	1¼

*Humbucking construction for good balance and low hum pickup.

OUTPUT TRANSFORMERS

Cat. No.	List Price	IMPEDANCE		Pri- mary MA DC	Max. Watts	Frequency Response	Case	DIMENSIONS					Wt. Lbs
		Primary	Secondary					Overall			Mounting		
								W	L	H	W	L	
319A	7.00	10,000/8,000 CT PP Pentode 6V6 etc.	16/8/4	45	15	2db 50-15,000	14B	2 ³ / ₈	2 ³ / ₄	3 ¹ / ₂	1 ⁷ / ₈	2 ¹ / ₄	2 ¹ / ₄
319B	7.50	6,600/5,000 CT PP Pentode 6L6 etc.	500/250/ 16/8/4	60	25	1db 50-12,000	14B	2 ³ / ₈	2 ³ / ₄	3 ¹ / ₂	1 ⁷ / ₈	2 ¹ / ₄	2 ³ / ₄
319C	6.50	5,000/4,000 Pentode 6L6 etc.	16/8/4	60 Unbal.	8	2db 60-8,000	14B	2 ³ / ₈	2 ³ / ₄	3 ¹ / ₂	1 ⁷ / ₈	2 ¹ / ₄	2 ¹ / ₄
319D	8.00	5,000/4,000 PP Triode 2A3 etc.	16/8/4	60	15	1db 30-10,000	14B	2 ³ / ₈	2 ³ / ₄	3 ¹ / ₂	1 ⁷ / ₈	2 ¹ / ₄	2 ¹ / ₄

REPLACEMENT OUTPUT TRANSFORMERS

Cat. No.	List Price	IMPEDANCE		Application	Watts	Pri- mary MA	Case	DIMENSIONS				Wt. Lbs.
		Primary	Secondary					W	L	H	Mtg.	
316A	1.50	2,000	3.2	25B5-25B6 35A5-50L6	4	55	1H	1½	2 ³ / ₈	1 ³ / ₈	2	½
316B	1.60	5,000	3.2	43-6V6-6L6 7C5-25A5	4	40	1H	1½	2 ³ / ₈	1 ³ / ₈	2	½
316C	1.65	10,000	3.2	6K6-6G6-6N7	4	30	1H	1½	2 ³ / ₈	1 ³ / ₈	2	½
316D	2.60	2,000 to 10,000 CT	1 to 30	Universal	4	35	1H*	1½	2 ³ / ₈	1 ³ / ₈	2	½
316E	4.00	2,000 to 8,000 CT	2 to 30	Universal	8	55	1H*	1¾	3¼	2	2 ¹³ / ₁₆	1¼
316F	5.50	2,000 to 10,000 CT	2 to 30	Universal	15	45	1H*	2¼	4	2 ⁵ / ₈	3 ¹¹ / ₁₆	2¼

*Primary leads—Secondary solder lugs.

SPEAKER MATCHING TRANSFORMER

Frequency Response 1½db 50 to 8,000 cps—Solder Lugs. Line to Voice coil for one or more speakers.

Cat. No.	List Price	IMPEDANCE		Watts	Case	DIMENSIONS				Wt. Lbs.
		Primary	Secondary			W	L	H	Mtg.	
116A	4.25	2,000/1,000/500	16/8/4	10	1V	1 ⁵ / ₈	2 ⁷ / ₈	2 ⁵ / ₁₆	2 ³ / ₈	1¼



YEOMAN TRANSFORMERS

MINIATURE AUDIO TRANSFORMERS

QUALITY PLUS performance at amazingly low prices. Maximum level +10 dbm.

Cat. No.	List Price	Type	Primary	Secondary	Application	Response
208A	7.25	Input	50/250/600	80,000	Line to 1 Grid	1db 30-15,000
208B	7.50	Input	50/250/600	80,000 CT	Line to PP Grids	1db 30-15,000
208C	7.50	Input	7.5/30	80,000	Low Impedance to Grid	1db 30-15,000
208D	7.50	Interstage	15,000	60,000 CT	Single Plate (No DC) to PP Grids	1db 30-10,000
208E	7.00	Interstage	15,000	60,000 CT	Single Plate (3MA DC) to PP Grids	2db 200-10,000
308E	7.25	Output	15,000	50/250/600	Single Plate (No DC) to Line	1db 40-15,000
308F	7.00	Output	15,000	50/250/600	Single Plate (3MA DC) to Line	2db 100-15,000
308G	7.50	Output	30,000 CT	50/250/600	PP Plates to Line	1db 30-15,000
408D	5.00	Choke (1)	200 Hy@0DC; 100 Hy@2MA; 50 Hy@4MA; 16 Hy@10MA; 6,000 Ohms Res.			

(1) The above inductances and resistance when the two windings are connected in series. They may be connected in parallel. Case Style 11—Weight $1\frac{1}{4}$ oz. each.

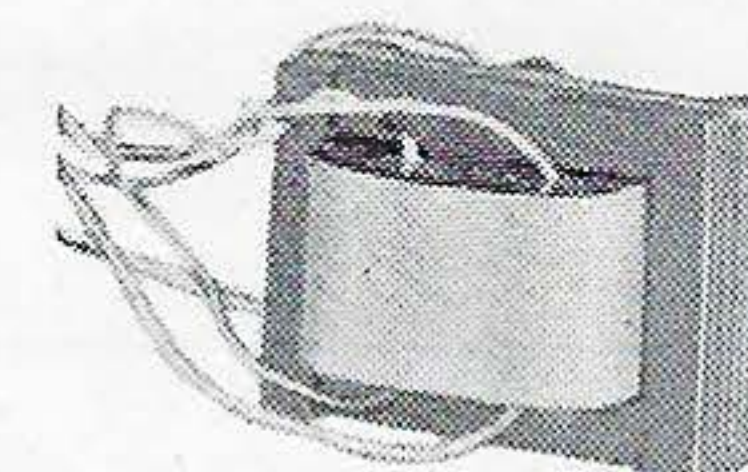


Dia. $\frac{7}{8}$
Ht. $1\frac{3}{8}$
Mtg. $\frac{11}{16}$

SUBMINIATURE AUDIO TRANSFORMERS

These peewees will prove superior for hearing aids, experimental dwarfs, or any other applications where top performance must be realized from a minimum of physical space.

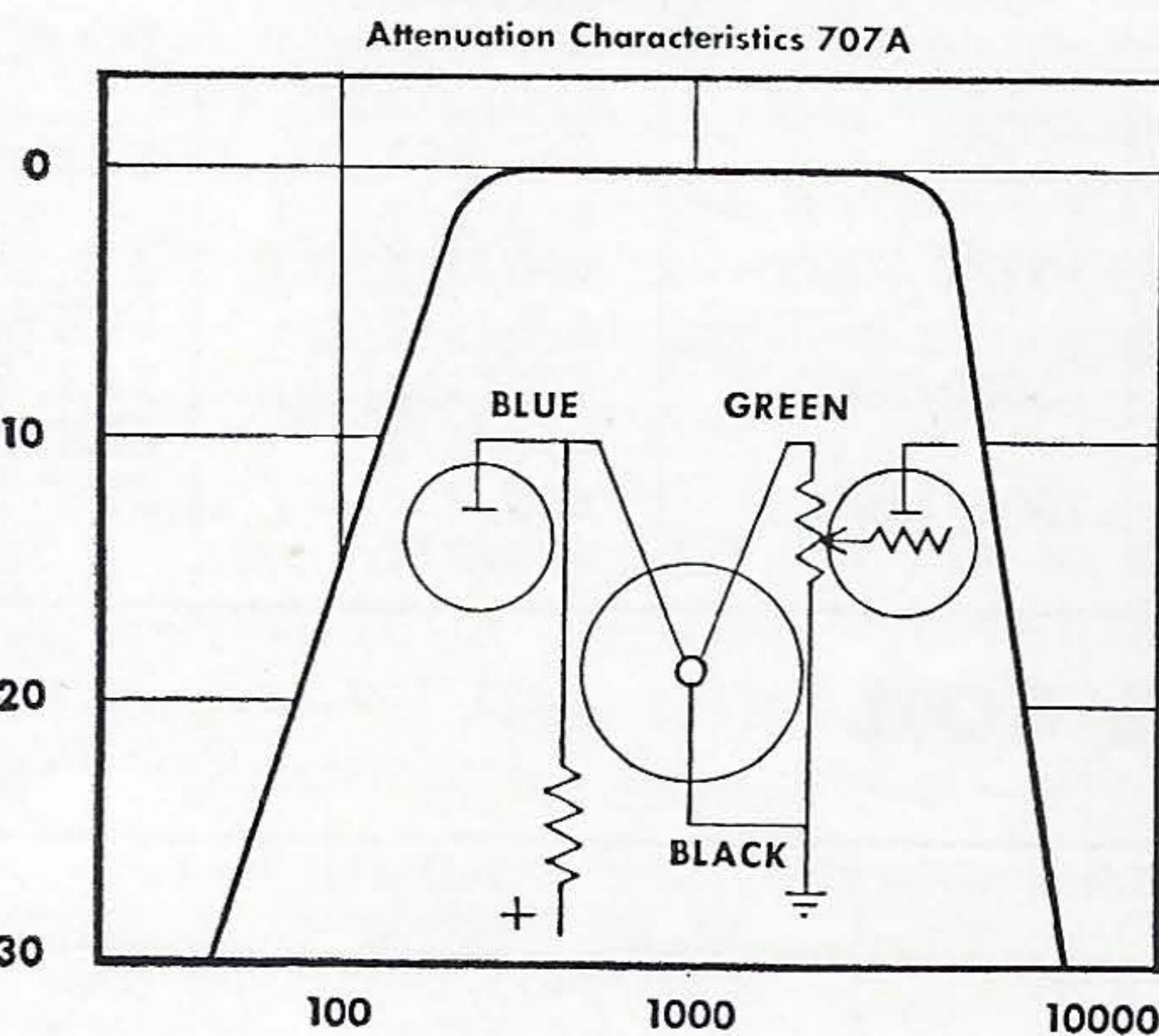
Frequency response 2db 200 to 6,000. All windings will carry 10 MA DC without excessive heating. Overall dimensions $\frac{1}{2} \times \frac{5}{8} \times \frac{3}{4}$. Weight $\frac{1}{3}$ oz. Uncased.



Cat. No.	List Price	Type	Turns Ratio P to S	IMPEDANCE		Application	Level
				Primary	Secondary		
213A	5.50	Input	1 to 35	50 to 200	62,500 to 250,000	Microphone to Grid	+ 2 DBM
213C	5.50	Interstage	1 to 3	10,000	90,000	Single Plate to Grid	+ 5 DBM
313A	5.50	Output	7 to 1	25,000 (1) 10,000 (2) 30,000 (3)	500 200 50	Single Plate to Line	+25 DBM
313C	5.50	Output	24 to 1	30,000 (3)	50	Single Plate to Line	+25 DBM
413A	5.00	Reactor	30 Hy@1 MA DC; 16 Hy@3 MA DC; 3,000 Ohms Res. (1) At 1.5 MA DC (2) At 3 MA DC (3) At 1 MA DC				

707A BAND PASS FILTER

This unusual band pass filter may be used in either transmitter or receiver circuits to restrict transmission of unwanted frequencies. Providing an attenuation of 40db below 70 cps and above 12,000 cps, with 20db at 120 cps and 6,000 cps, this filter is superior to other commercial units in performance and considerably lower in price. Matching impedances are not critical; a 10,000 ohm input, with internal blocking condenser, will match any triode tube; output taps provide impedances of 100,000, 10,000 and 500 ohms respectively to match a single grid, high or low impedance phones or line. Flexible leads and only two mounting screws facilitate installation.



Cat. No.	List Price	IMPEDANCE		Frequency Pass Band	DIMENSIONS			Wt. Lbs.
		Primary	Secondary		Diam.	Height	Mtg.	
*707A	9.50	10,000	100,000/10,000/500	200 to 3,000	$2\frac{15}{16}$	$2\frac{3}{4}$	$2\frac{3}{8}$	$\frac{3}{4}$

*This filter has a maximum power capacity of one watt.



"AUDIO DEVELOPS THE FINEST"

INDUSTRIAL TRANSFORMERS

ADC

- $1\frac{1}{2}$ db 50-10,000 cps
- Power ratings at 50 cycles
- Fully impregnated before potting
- Continuous duty ratings
- Minimum insertion loss
- Rugged steel cases
- Moisture proof potting compound
- Dependable operation at lower cost

IMPEDANCE MATCHING TRANSFORMERS

Cat. No.	List Price	Impedance	Description	Max. DC Unbalance in Primary	Watts	Case	Wt. Lbs.
115B	11.50	1/2/3/6/8/10/16/22/37/43/50/75/140/220/250/333/400/440/500/600	Auto Transformer	0	20	14B	2 $\frac{3}{4}$

INPUT TRANSFORMERS

Cat. No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance in Primary	Max. Level DBM	Case	Wt. Lbs.
215A	13.40	600 (150)	50,000	Line to single or PP grids. Humbucking windings.	0	+26	14A	1 $\frac{1}{4}$
215E	13.60	7,500	60,000 CT	Line bridging to single or PP grids. (Bridging impedance 15,000 ohms)	0	+33	14A	1 $\frac{3}{4}$

INTERSTAGE TRANSFORMERS

Cat. No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance in Primary	Max. Level DBM	Case	Wt. Lbs.
215C	13.60	10,000	80,000 CT	Single plate to PP grids. 45, 6L6, 2A3, etc. (A, AB1)	10	+30	14A	1 $\frac{3}{4}$
215D	13.30	20,000	90,000	PP plates to PP grids. Humbucking windings.	.5	+33	14A	1 $\frac{1}{4}$

OUTPUT TRANSFORMERS

Cat. No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance in Primary	Watts	Case	Wt. Lbs.
315A	11.20	15,000	600/250 (150/62.5)	1 6C5, 6J5, 1F5, etc.	8	$\frac{1}{2}$	14A	1 $\frac{3}{4}$
315B	12.90	20,000 CT	600/250 (150/62.5)	PP 6C5, 6J5, etc.	.5	1	14A	1 $\frac{3}{4}$
315C	12.90	5,000	600/250/16/8/6/3/2/1	Single 6V6, etc.	35	6	14B	2 $\frac{3}{4}$
315D	14.20	10,000/8,000	600/250/16/8/6/3/2/1	AB ₁ and AB ₂ , 6F6, 6V6 pentode	2	15	14B	2 $\frac{3}{4}$
315F	17.20	5000/3000	600/250/16/8/6/3/2/1	2A3, 6B4, 6A3, 6L6 (A ₁)	5	18	14C	5 $\frac{1}{2}$
315G	26.50	2500/1500	600/250/16/8/6/3/2/1	PPP 2A3, 6B4, 6L6	10	30	14D	9 $\frac{1}{4}$

LINE TO VOICE COIL

$\pm 1\frac{1}{2}$ db 30-15,000 cps

Cat. No.	List Price	Primary Impedance	Secondary Impedance	Watts	Case	Wt. Lbs.
115M	19.20	3000/2400/1800/1200/600	20/16/8/4	15	14C	5 $\frac{1}{4}$
115N	24.20	3000/2400/1800/1200/600	20/16/8/4	30	14D	9 $\frac{1}{4}$

CHOKES

Cat. No.	List Price	Henries	MA DC	DC Ohms	RMS Test Volts	Case	Wt. Lbs.
415J	4.50	8	85	330	1500	14A	1 $\frac{3}{4}$
415K	6.25	8	160	150	1500	14B	2 $\frac{3}{4}$

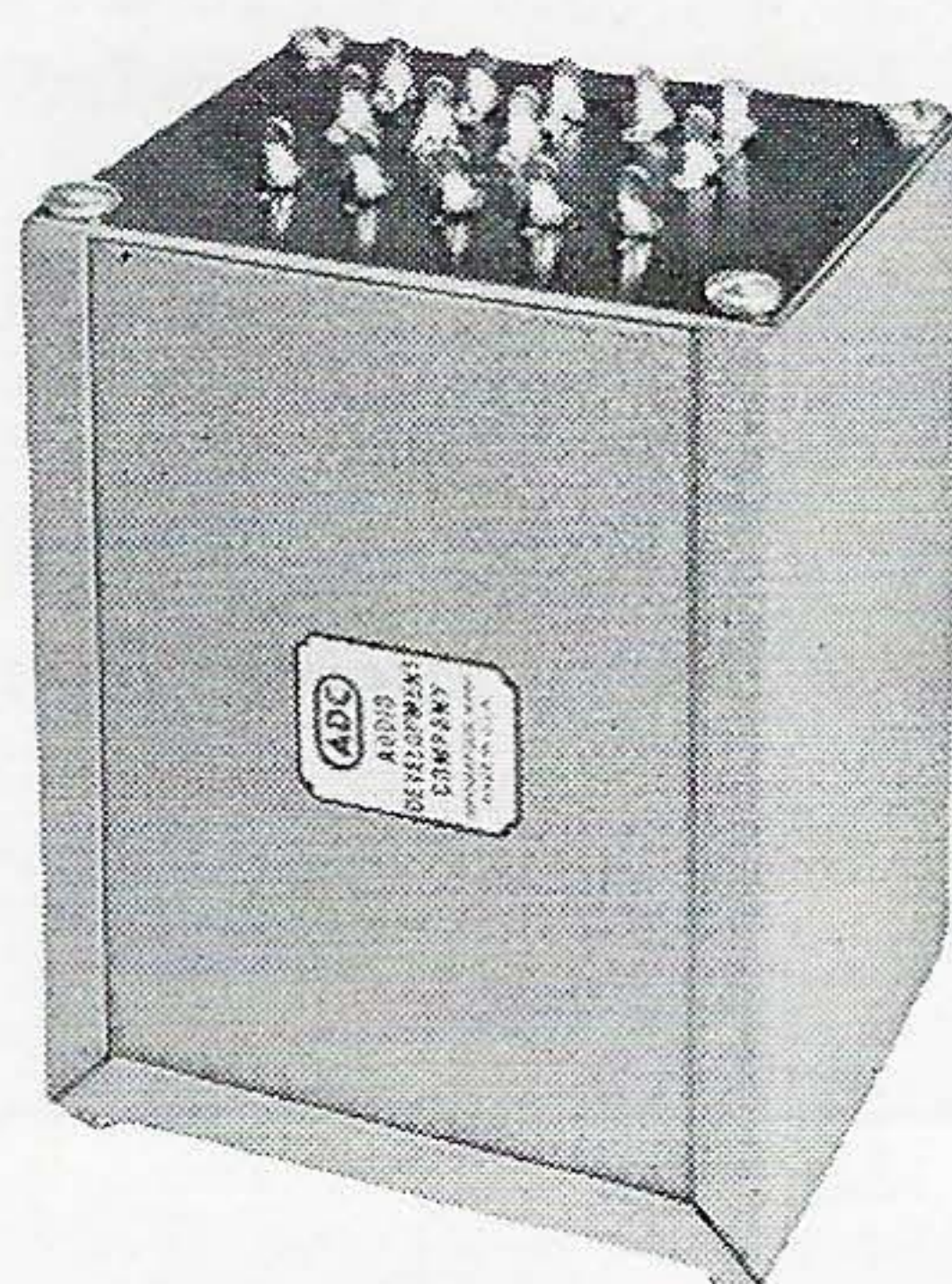


INDUSTRIAL TRANSFORMERS

POWER TRANSFORMERS

Cat. No.	List Price	Primary VA	SECONDARY #1			Secondary #2	Secondary #3	Case	Wt. Lbs.
			RMS Volts	MA DC Condenser	MA DC Choke				
515X	9.15	78	300-300	80	120	5.0V-2A	6.3V-3.0A	14B	2 $\frac{3}{4}$
515Y	10.95	109	350-350	125	185	5.0V-3A	6.3V-4.5A	14C	5 $\frac{1}{2}$
515Z	12.40	126	325-325	160	240	5.0V-3A	6.3V-5.0A	14C	5 $\frac{1}{2}$
515J	27.00	240	450-450	250	350	5.0V-3A	6.3V-5.0A	14E	14

TYPE 14 TRANSFORMER CASE DIMENSIONS



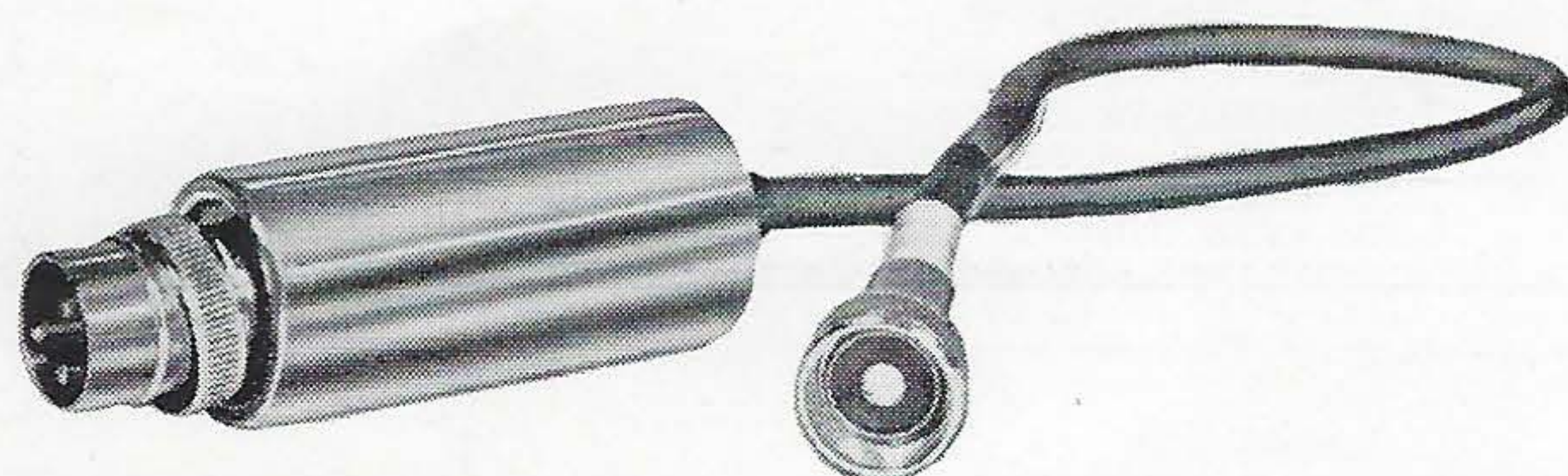
TYPE 14A

Type	Length	Width	Height	Mounting Dimensions		Chassis Knock-Out for Max. No. of Terminals	
				A	B	C	D
14AC*	2.375	2	3	1.875	1.5	2	1.125
14AD*	2.375	2	3.5	1.875	1.5	2	1.125
14A	2.375	2	3	1.875	1.5	2	1.125
14B	2.75	2.375	3.5	2.25	1.875	2.5	1.375
14C	3.5	3	4.25	3	2.5	2.875	2
14D	4.125	3.5	5.125	3.625	3	3	2.5
14E	5.5	4.125	5.125	5	3.625	4.5	3
14Y	1.531	1.312	2	1.156	1	1.062DIA.	

*Heavy annealed cast iron for low level shielding.

†Mounting screws: 6/32 machine screw except 8/32 for 14C and 10/32 for 14D.

MICROPHONE CABLE TRANSFORMER



Cat. No.	List Price	IMPEDANCE		DIMENSIONS		Wt. Lbs.
		Primary	Secondary	Diam.	Length	
111A	25.00	50/250	80,000	1 $\frac{1}{8}$ "	2 $\frac{1}{2}$ "	6 oz.

This unit has been designed for insertion in the microphone cable circuit to permit rapid change from high to low impedance microphone input on any amplifier or broadcast studio console. Response is flat within 1 $\frac{1}{2}$ db from 30 to 15,000 cps. Magnetic shielding minimizes hum pick up. Mechanical construction is strong and simple. Connection to the balanced primary is made with a three-prong microphone plug (one prong grounded); the unbalanced high impedance secondary is connected through a 15 inch length of cable terminated in a single contact microphone receptacle.

706-A VARIABLE FILTER



Cat. No.	List Price	Standard Mounting	Overall Dimensions
706A	215.00	19" rack	7 x 19 panel 8 $\frac{1}{2}$ "

This unit is intended primarily for use as a sound effects filter, but is also adaptable for use wherever high or low pass filter units are required. Cut-off frequencies are 100, 250, 500, 1000, 2000, 3000, 4000 and 5000 cps.

- Frequency cut-off adjustable from both ends.
- 600 ohm impedance without transformers.
- Provision is made for mounting transformers within the unit to match any line conditions.
- Insertion loss at pass band frequencies less than 1 db.
- Attenuation at least 18 db. per octave past cut-off frequency—increasing past this point.
- Fits standard 19" relay rack. Other mountings also available.
- Permanent line connections in rear.
- Patch jacks disconnect permanent lines from filter.



"AUDIO DEVELOPS THE FINEST"

QUALITY PLUS TRANSFORMERS

- $\frac{1}{2}$ db 30 to 15,000 cps all types
- Low transmission loss
- Power ratings at 30 cycles
- Either top or bottom mounting
- Case finished in gray wrinkle enamel
- Low hum pickup
- Vacuum impregnation of coils
- Humbucking winding on all Impedance, Output and Bridging types
- Electrostatic shields on all types
- Terminals of heavy gauge brass, silver plated for easy soldering
- Moisture proof potting compound used throughout

The response of these transformers is flat within $\frac{1}{2}$ db from 30-15,000 cps throughout the entire dynamic range from maximum rated power to 40 db below this level. This has been achieved by using high permeability steel and nickel alloy cores plus multiple inter-leaving of sectionally wound coils. All bridging transformers have built-in primary resistors, balanced to 0.1% or better, making the bridging impedance twice the primary impedance. The Impedance Matching and Input transformers have a longitudinal balance of better than 50 db and may be used with excellent results on a 500 ohm line.

STANDARD LINE IMPEDANCES

Impedance values shown within parentheses following a higher value, as "600 (150) ohms", indicate the effect of connecting windings in parallel. In either case windings are well balanced, but center tap is available only when both windings are connected in series.

IMPEDANCE MATCHING TRANSFORMERS

Catalog No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. Level DBM	Case	Weight Lbs.
114A	27.60	600/250(150/62.5)	600/250(150/62.5)	2 mumetal shields	+16	14A	1 $\frac{3}{4}$
114B	22.20	600/250(150/62.5)	600/250(150/62.5)	Cast case only	+20	14AD	2 $\frac{1}{4}$
114C	29.50	10,000/600 (2500/150)	600/250(150/62.5)	Bridging and line to line	+16	14A	1 $\frac{1}{2}$
114E	27.50	10,000(2500)	600/150(150/37.5)	2 mumetal shields Bridging to line	+16	14A	1 $\frac{1}{2}$
114F	27.60	600/150(150/37.5)	600/150(150/37.5)	2 mumetal shields	+16	14A	1 $\frac{3}{4}$
114G	23.80	600/150(150/37.5)	600/150(150/37.5)	2 mumetal shields Cast case only	+20	14AD	2 $\frac{1}{4}$

INPUT TRANSFORMERS

Catalog No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance In Primary	Max. Level DBM	Case	Weight Lbs.
214A	24.80	600/250(150/62.5)	80,000	Line to 1 grid 2 mumetal shields	0	+20	14A	1 $\frac{1}{2}$
214B	17.40	600/250(150/62.5)	80,000	Line to 1 grid. Cast case	0	+20	14AC	2 $\frac{1}{2}$
214C	28.60	600/250(150/62.5)	60,000 (15,000)	Line to PP grids 3 mumetal shields	0	+20	14A	2 $\frac{1}{2}$
214E	29.70	10,000/600 (2500/150)	60,000	Bridging and line to grid. 3 mumetal shields	0	+20	14A	1 $\frac{1}{2}$
214F	22.40	10,000/600 (2500/150)	60,000	Bridging and line to grid. Cast case	0	+20	14AC	2 $\frac{1}{2}$

INTERSTAGE TRANSFORMERS

Catalog No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance In Primary	Max. Level DBM	Case	Weight Lbs.
214H	14.40	10,000	80,000 (20,000)	Single plate to PP grids. Humbucking. Cast case	0	+26	14AC	1 $\frac{1}{4}$
214J	21.30	20,000(5000)	80,000 (20,000)	PP plates to PP grids. Humbucking. Cast case	1 MA	+30	14AC	2 $\frac{1}{4}$



QUALITY PLUS TRANSFORMERS

PLATE TO LINE PRE-AMPLIFIER SERVICE

Cat. No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance in Primary	Max. Level DBM	Case	Wt. Lbs.
314A	22.70	15,000	600/250(150/62.5)	1 6J5, etc.	8	+23	14AD	2 1/2
314B	19.90	20,000	600/250(150/62.5)	PP 6J5, etc.	1	+27	14AD	2 1/4

TUBE TO LINE AND V. C., POWER TYPE ($\pm 1/2$ db response guaranteed on 600 ohm output only)

Cat. No.	List Price	Primary Impedance	Secondary Impedance	Description	Max. DC Unbalance in Primary	Max. Level	Case	Wt. Lbs.
314C	27.10	5000/3000	600/16/8(150/4/2)	AB ₁ , 2A3, 6A3, 6B4	5	15W	14D	7 1/4
314D	27.30	8000	600/16/8(150/4/2)	AB ₁ , 6F6 triode	1	3W	14D	7 3/4
314E	33.50	*10,000/8000	600/16/8(150/4/2)	PP 6V6, 6F6 pentode	5	20W	14D	8
314F	41.20	*9000/6600	600/16/8(150/4/2)	PP 6L6 pentode	5	30W	14D	8 3/8
314G	40.70	2500/1500	600/16/8(150/4/2)	PPP 2A3, 6B4, 6L6	5	30W	14D	8 1/2

*NOTE: Feedback winding full 10% of primary turns.

Output transformers, Types 314C and 314D, have been designed for efficient use only with the specified triodes, or other triodes having identical characteristics. Failure to use proper tubes will cause a shift in frequency response of the transformer.

Output transformers, Types 314E and 314F, have been designed for efficient use with any pentode having the proper

load impedance, provided the maximum power rating of the transformer is not exceeded. Other pentodes may be used with slightly decreased efficiency.

Output transformer, Type 314G, has been designed for use with either pentode or triode tubes requiring a plate to plate load of 1500 or 2500 ohms and a total plate resistance (plate to plate) ranging from 800 ohms to infinity.

REACTORS (FOR TUNED CIRCUITS)

Cat. No.	List Price	Henries	RMS Test Volts	Minimum Q	Case	Wt. Lbs.
414D	6.80	2.4 (10Kc)	1000	12	14Y	1/2
414E	6.60	0.8 (6Kc)	1000	14	14Y	1/2

HIGH LEVEL AUDIO EQUIPMENT

MODULATION REACTORS

Cat. No.	List Price	Henries	DC Amps.	DC Ohms	RMS Test Volts	Max. Volts Excitation	Case Style	Wt. Lbs.
615E	95.00	60	.3	225	7,500	1,500	Special	60
615G	180.00	60	.6	110	10,000	2,500	Special	150

HIGH LEVEL DRIVER TRANSFORMERS

Response $1/2$ db 30 to 12,000 cps.

These driver transformers have low DC resistance, balanced

windings and low distortion making them especially well-suited for Class B operation.

Cat. No.	List Price	APPLICATION		Primary MA per Side	Turns Ratio Pri. to Sec.	Case Style	Wt. Lbs.
		Primary	Secondary				
615A	35.00	PP 2A3, etc.	PP 805, etc. Class B	60	1.6	14C	15
615C	55.00	PP 845, etc.	PP 833, etc. Class B	70	3.0	14D	22

HIGH LEVEL MODULATION TRANSFORMERS

Response $1/2$ db 30 to 12,000 cps.

These modulation transformers have been carefully designed for quiet operation and maximum efficiency. When used with

correct tubes, these units have excellent frequency characteristics suitable for any commercial, high quality amateur or public address service.

Cat. No.	List Price	Primary Application	IMPEDANCE		Audio Watts	Case Style	Wt. Lbs.
			Primary	Secondary			
615M	75.00	PP 805, etc.	6,500	5,000	250	Special	50
615N	310.00	PP 833A, etc.	10,500	5,000	800	Special	120



PLUGS & PATCH CORDS

JACKS & JACK PANELS

ADC

ADC PLUGS—interchangeable with other standard plugs of same type, these items are of unusually sturdy, but simple construction designed to facilitate assembly and cord replacement. All parts are carefully manufactured to exact dimensions and only finest materials are used. Insulation between parts tested to withstand a breakdown at 500 volts RMS, although 1500 volts RMS has been carried before breakdown.

Type	Equivalent	Conductors (each plug)	List Price
PJ-1	WE241	3	4.00
PJ-2	WE291	3	3.25
PJ-5	PL55, WE47	2	1.30



PJ-1 PLUG



PJ-2 PLUG

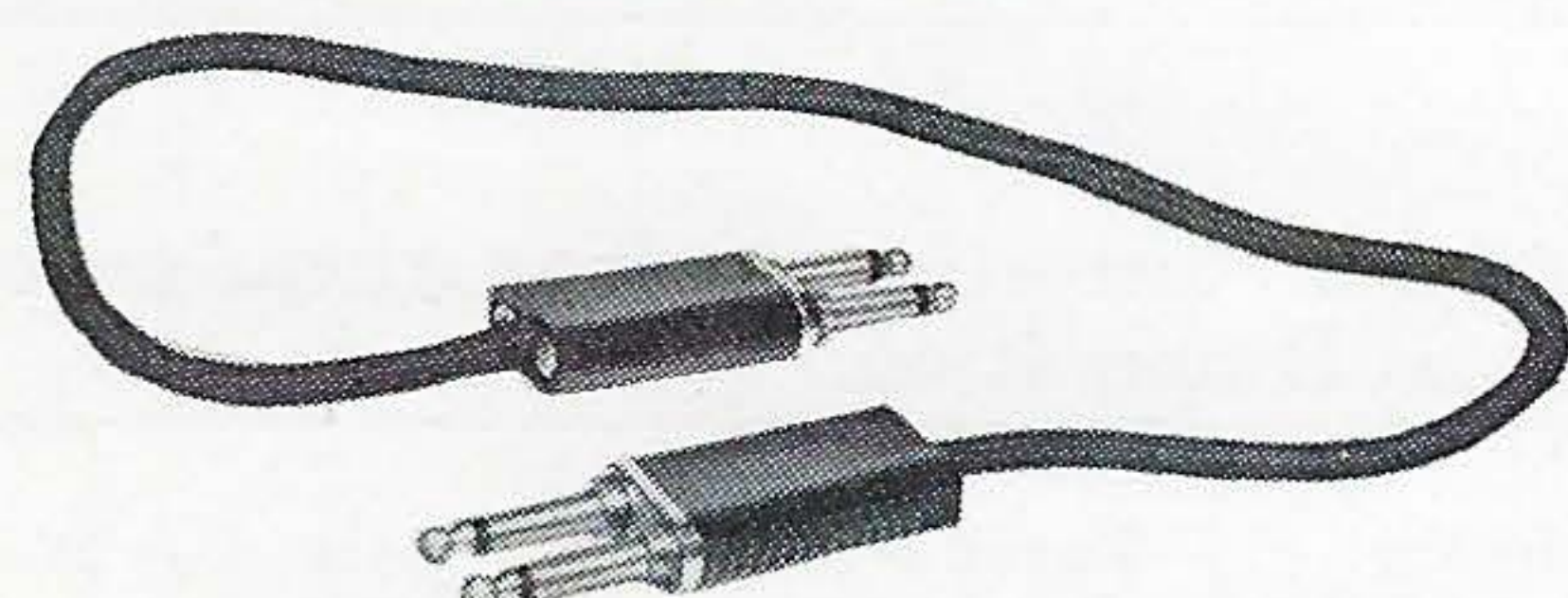


PJ-5 PLUG

ADC PATCH CORDS—best quality tinned copper 2-conductor stranded wire, completely shielded and insulated. Heavy braid cover, with six inch reinforcement at each end, protects wire from excessive wear. Shield normally grounded at both ends of cord; shield grounded at one end only supplied on special order.

Patch Cord Supplied with
PJ-1 Plugs PJ-2 Plugs

Length	Cord Type	List Price	Cord Type	List Price
1 Foot	PJ-11	11.00	PJ-71	9.60
2 Foot	PJ-12	11.20	PJ-72	9.80
3 Foot	PJ-13	11.40	PJ-73	10.00
4 Foot	PJ-14	11.60	PJ-74	10.20
5 Foot	PJ-15	11.80	PJ-75	10.40



PATCH CORD WITH PJ-1 PLUGS

REPLACEMENT CORDS—available in same quality as original cords.

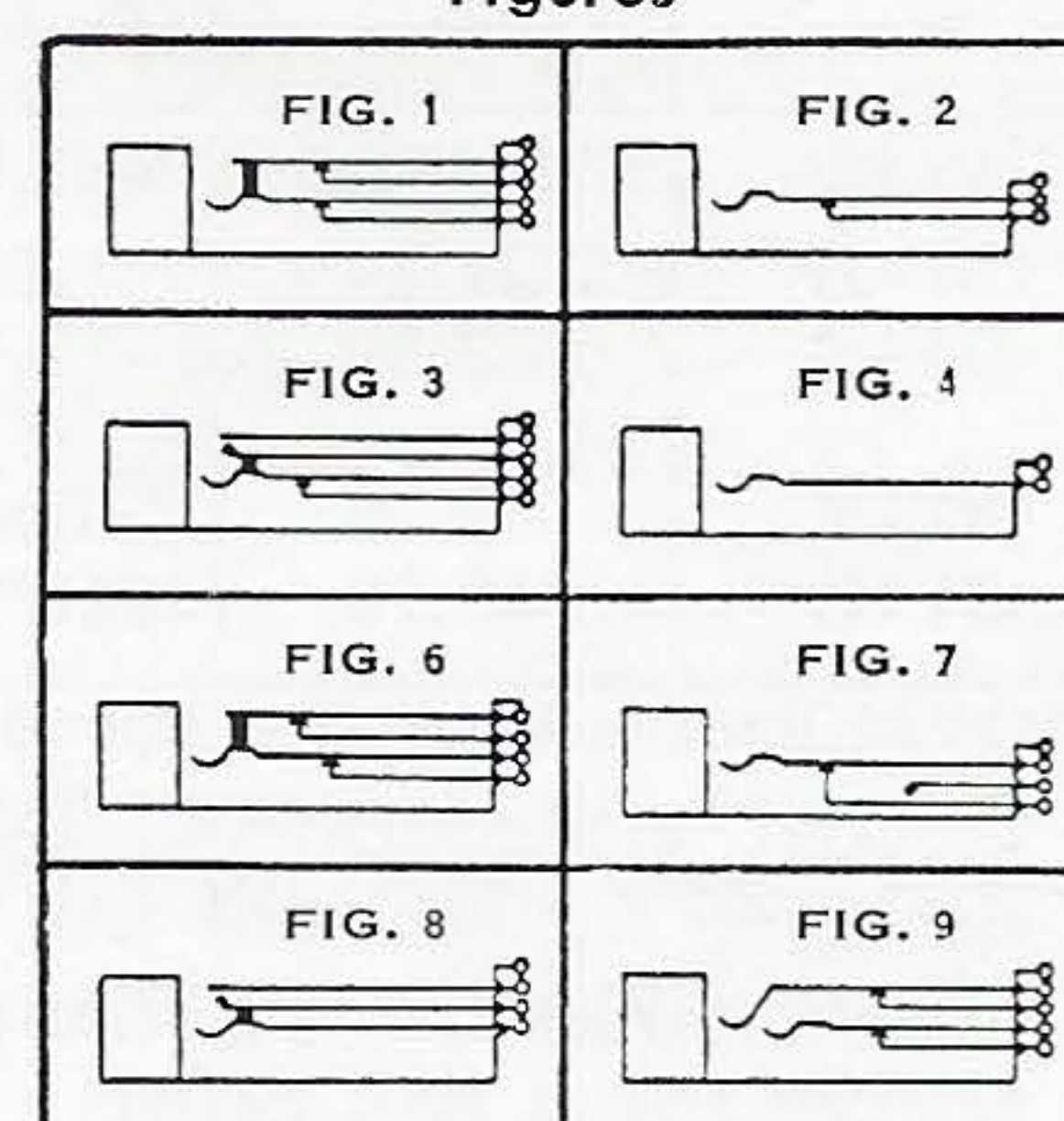
For Use with Patch Cord
PJ-10 Series PJ-70 Series

Length	Cord Type	Cord Type	List Price
1 Foot	PJ-21	PJ-61	2.50
2 Foot	PJ-22	PJ-62	2.75
3 Foot	PJ-23	PJ-63	2.90
4 Foot	PJ-24	PJ-64	3.00
5 Foot	PJ-25	PJ-65	3.15

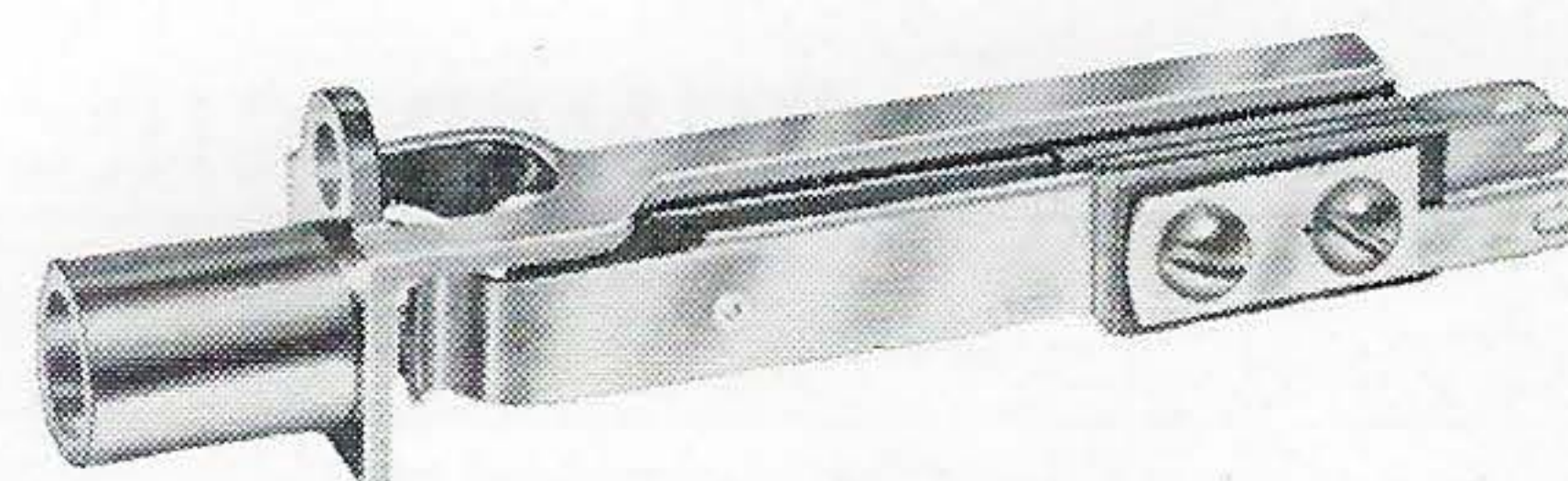
ADC JACK—frames are die formed of heavy gauge material press welded and nickel plated; genuine nickel silver springs maintain a uniform pressure on the silver alloy contacts; all connecting lugs are tinned. Dimensions being standard, the jacks are interchangeable with any telephone type jack using a 1/4" plug. Spring arrangements are available as follows:

Type	Fig.	List Price
PJ-116	1	1.55
PJ-318	2	1.15
PJ-125	3	1.55
PJ-123	4	1.05
PJ-117	6	1.45
PJ-203	7	1.25
PJ-115	8	1.35
PJ-638	9	1.55
PJ-339	9	1.75

Figures



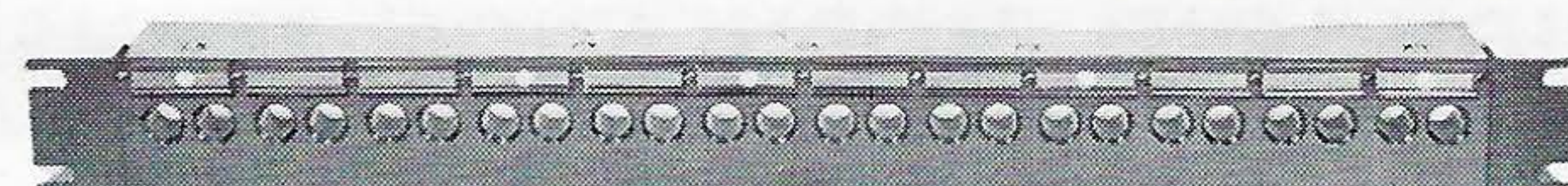
For use with plugs No. PJ-5, PL-55, WE-47 except PJ339 use with PJ-2 or WE291.



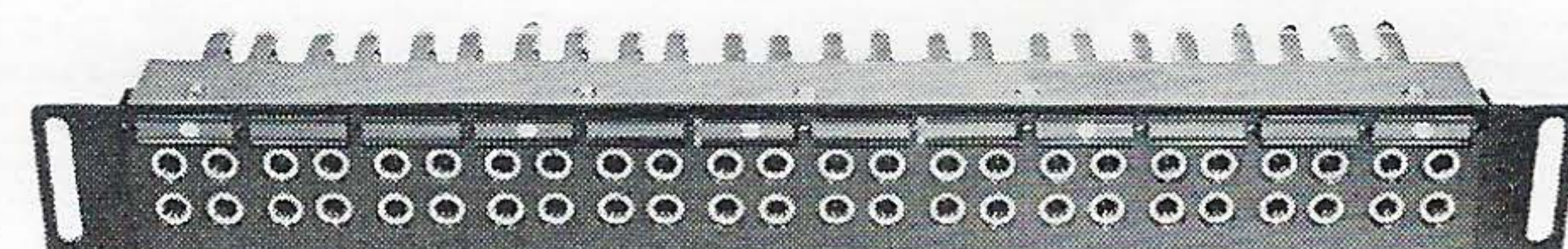
ADC JACK

ADC JACK PANELS—available for single or double row mounting of all standard telephone type jacks so spaced as to prevent one double plug from connecting the sides of two adjacent circuits. These panels of solid bakelite reinforced by steel for strength and rigidity are slotted for mounting in standard 19" relay racks. Single panels having a capacity for 24 jacks, require 1 3/4" of panel space; double panels having a capacity for 48 jacks, require 2 1/8" of panel space.

Type	Description	List Price
PJ-31	Double row jack panel, less jacks	15.00
PJ-33	Single row jack panel, less jacks	13.50
PJ-341	Double row jack panel including 48 Type PJ-318 jacks installed	71.50
PJ-343	Single row jack panel including 24 Type PJ-318 jacks installed	42.00



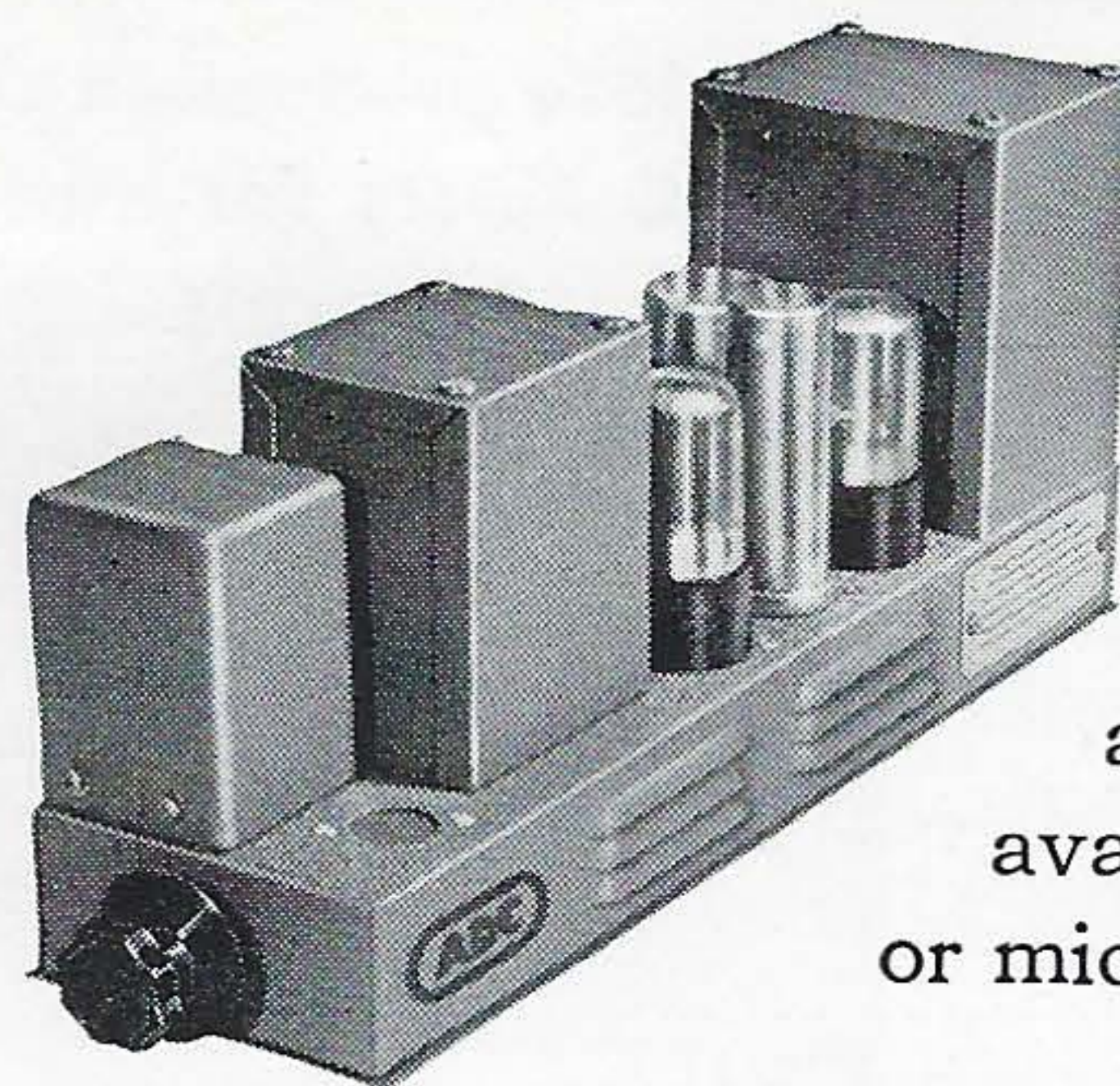
PJ-33 SINGLE ROW JACK PANEL



PJ-341 DOUBLE ROW JACK PANEL

71A, B, C or D AMPLIFIER

Designed to meet the needs of broadcast and wired music studios for a high quality, low power amplifier, these versatile units are available in either bridging or line input impedances and either line or voice coil output. Response is flat within .5db 40-12,000 cps and distortion is less than 2% at full power output. Maximum noise level is 78db below rated power output of 8 watts. Due to their compact size these amplifiers may be mounted four abreast on a special 19-inch mounting rack having a 7 x 19 inch face panel.



71F AMPLIFIER

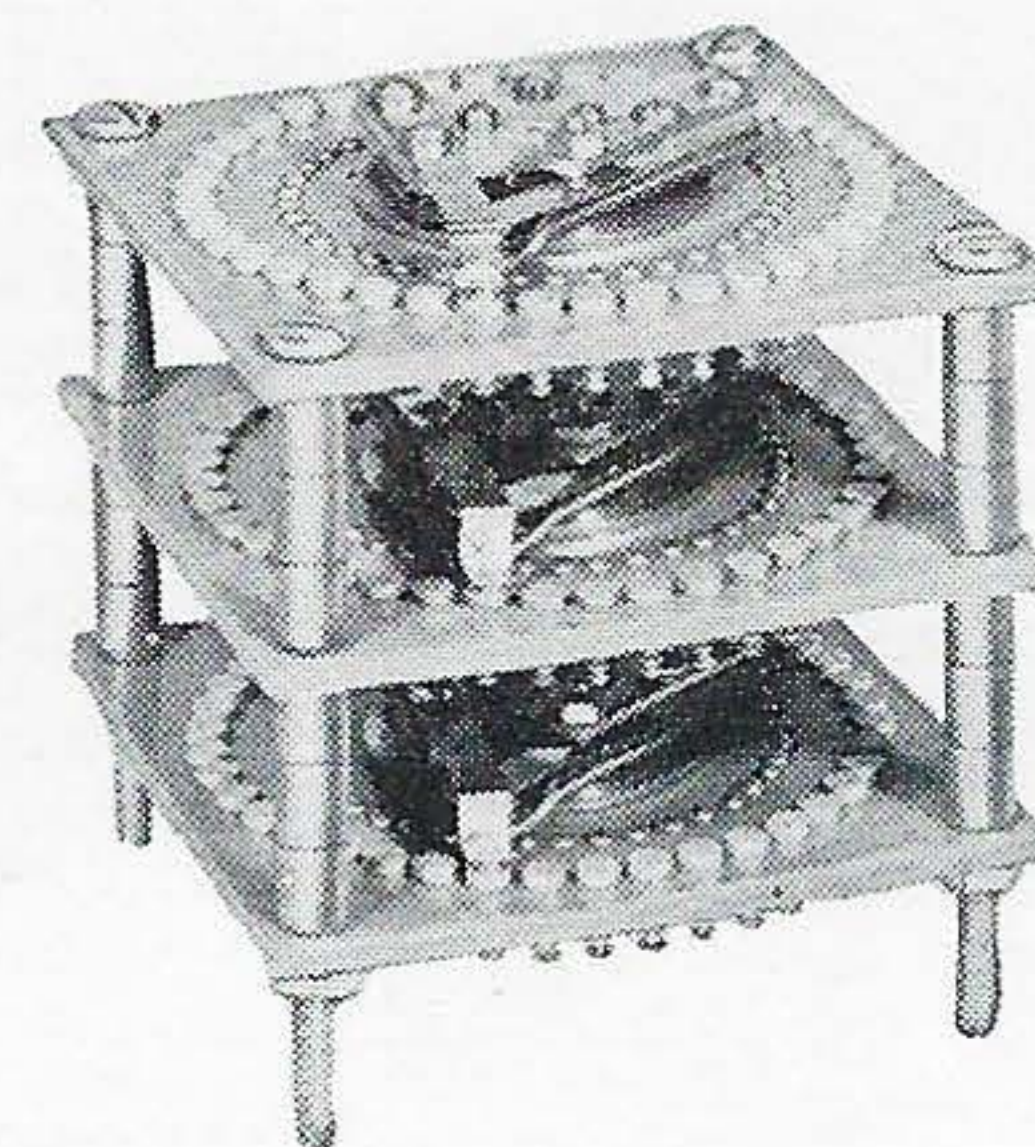
A special unit has been developed to provide fine performance for home use with an RF tuner or record player having a high impedance pick-up; a plug-in pre-amplifier is available for variable reluctance pick-up or microphone.

Cat. No.	List Price	DESCRIPTION	DIMENSIONS			Weight Lbs.
			Length	Width	Height	
71A	85.00	Bridge In Line Out...	16	3 3/4	6 7/8	11 1/2
71B	85.00	Bridge In Voice Out...	16	3 3/4	6 7/8	11 1/2
71C	85.00	Line In Line Out.....	16	3 3/4	6 7/8	11 1/2
71D	85.00	Line In Voice Out....	16	3 3/4	6 7/8	11 1/2
71F	68.00	Phono In Voice Out...	16	3 3/4	6 7/8	10 1/2
10A	9.00	Pre-amplifier	2	2	4 1/4	9 oz.
2A	31.25	Rack Panel	13	19	7	6 1/2

ROTARY SWITCH, 40-CONTACT

These switches were originally designed to meet a special demand for a 40-contact, non-shorting, low capacity switch capable of meeting all requirements of JAN specifications. They may be used in multiple deck assemblies and by means of a unique adjustment device, the pressure may be regulated on the ball bearing of a detent arm so as to provide uniform torque on the central control shaft, whether one or more decks, up to eight, may be required. All metal parts having

no circuit function are of stainless steel; metal parts required to carry current are of nickel-plated phosphor bronze, except contact studs which are silver capped and contact points which are solid silver. The deck is formed of heavy phenolic, Type NNP Nylon, in natural color. Other switches available to your order.



Cat. No.	List Price	DIMENSIONS			Weight
		Length	Width	Height	
60A	Quantity lots only	3 1/2	3 1/2	1 1/8	4 oz.

SOUND-LEVEL METER



(60-10000 CPS)

This unit has been designed to enable an acoustical engineer to measure the amplitude of variations in the air pressure within those frequencies recognized by the average human ear as "sound" or "noise". This sound-level meter conforms with the requirements of the American Standards Association and The Acoustical Society of America. It is an exceptionally compact instrument with built-in filter and all

batteries necessary for operation as a portable unit; no outside power is required either for operation or calibration. A special, non-directional, dynamic microphone of durable, moisture-resistant construction offers a flat response over a wide frequency range (60-10,000 cps). Internal circuit noise has been limited to a minimum thus permitting accurate measurements of noise within a range of 20 to 140 decibels.

Cat. No.	List Price	DIMENSIONS			Weight Lbs.
		Length	Width	Height	
54A	595.00	13 1/4	8 3/8	11	38 3/4

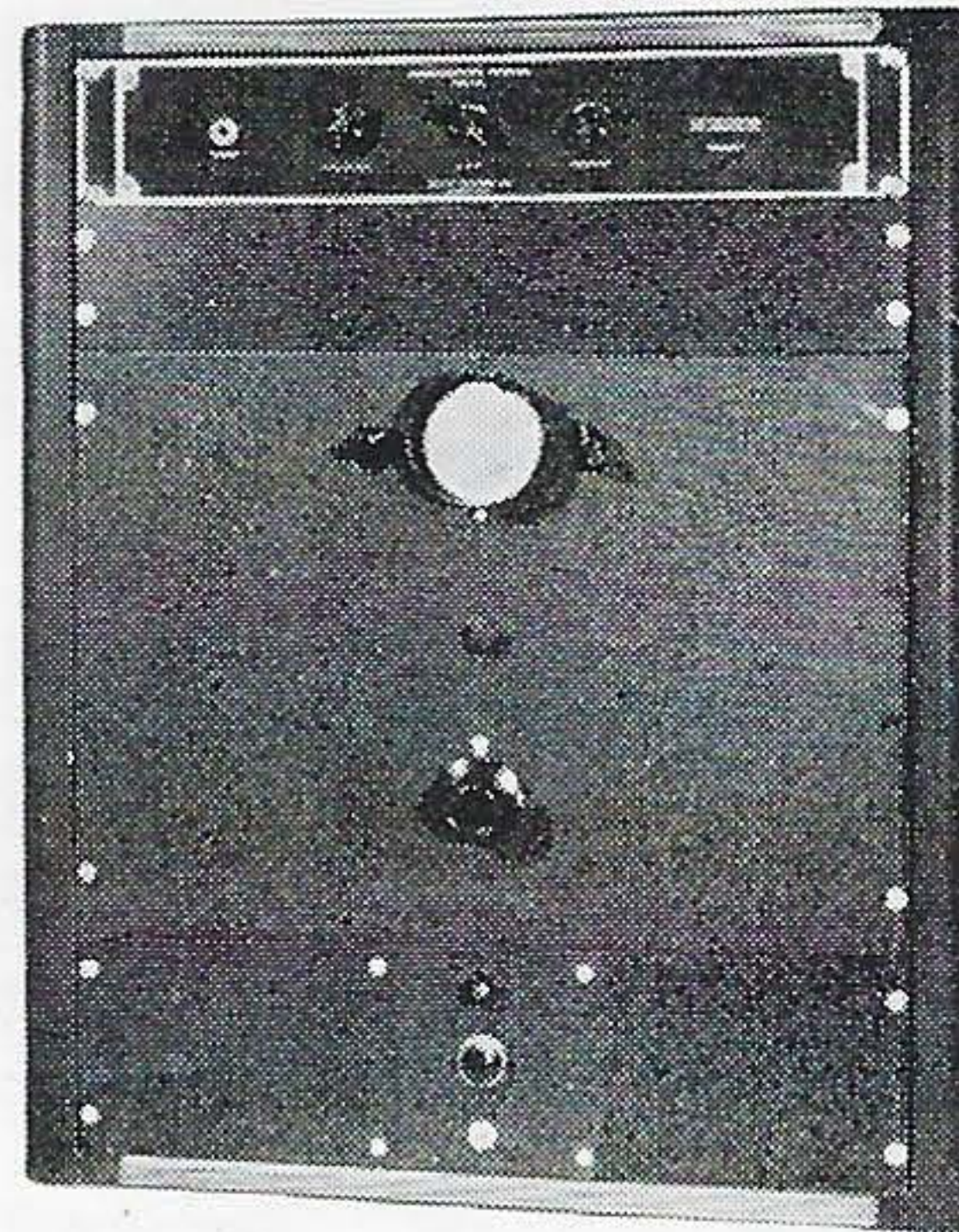
FILTERS

Accurate design and close production control have made engineers specify **ADC Filters** for more than 10 years.

PERFORMANCE, SIZE, AND COST, these are the factors taken into consideration in designing **ADC** filters to your specifications.

A filter, being an assembly of coils and condensers, will always reflect the quality, size, and cost of its components. Since it is generally true that inductor price and size are directly proportional to inductor "Q", it becomes extremely important for optimum design to have a variety of coils available for use in wave filters.

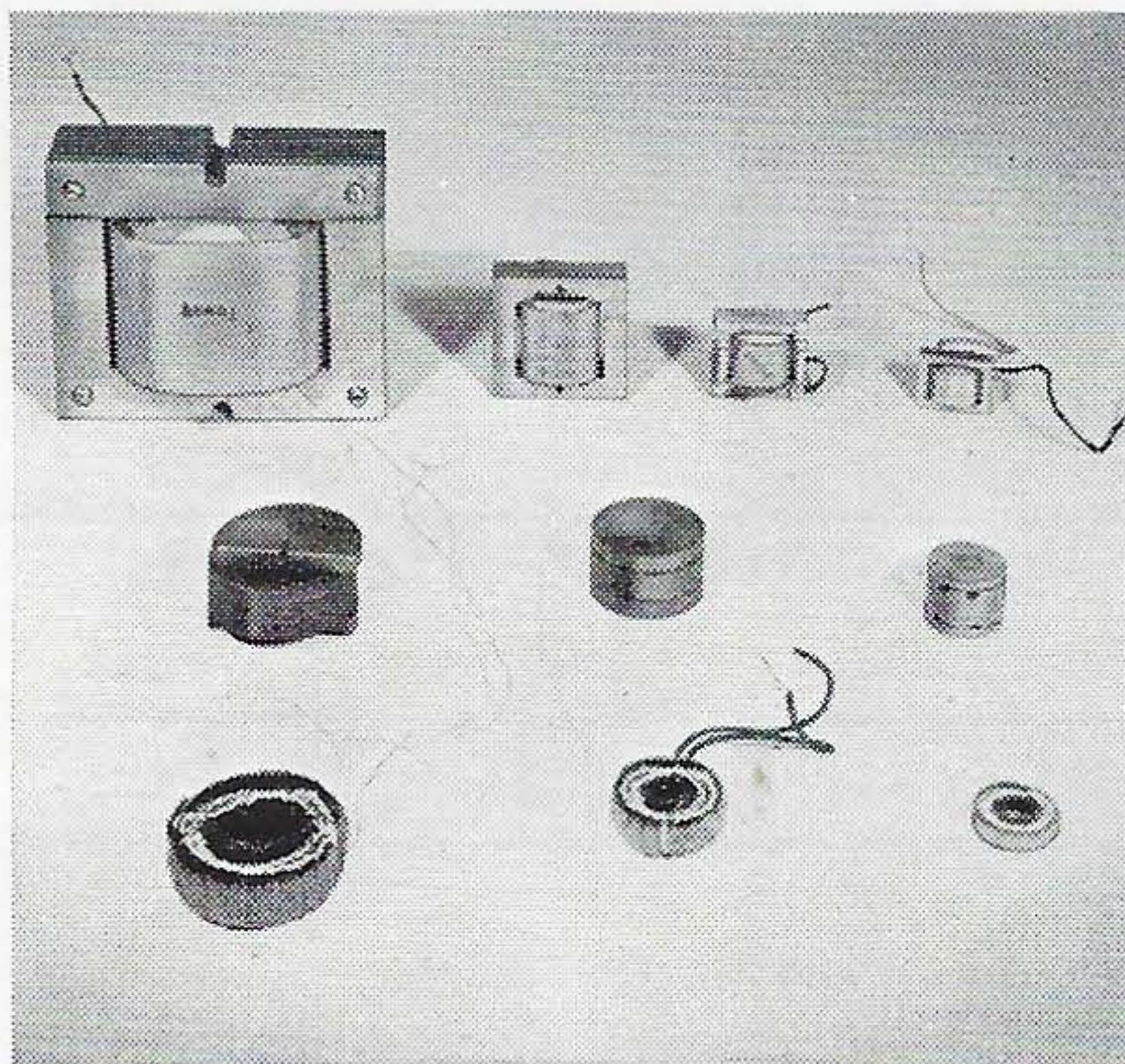
A few of the many coils available to **ADC** filter design engineers are shown on this page. The magnetic materials used in these inductors vary from transformer grade and "Mumetal" laminations to "Dust Pots", "Ferroxcube" cores and "Permalloy" rings.



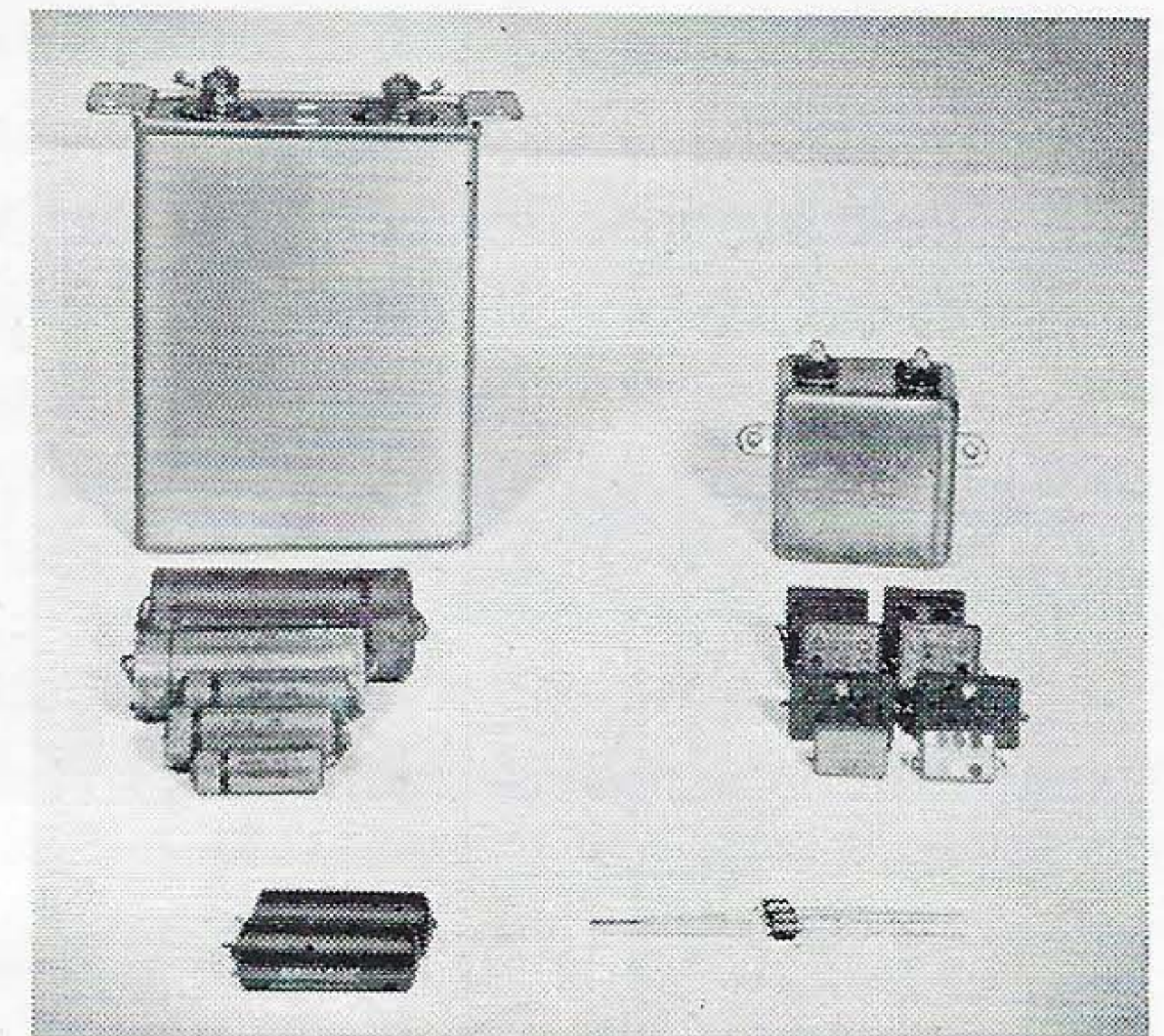
Frequency standard used by **ADC** to test all filters for accurate frequency response. Accuracy is better than 1 cycle per 100,000.

The "Q" of condensers usually being high, the type and size to be used in the filters may be determined by the operating temperatures of the filter and the value of capacitance required. Some of the condensers being used in **ADC** wave filters are pictured here. The types range from ordinary wax impregnated paper types, for use in most commercial and amateur filter applications, to mica, and special mineral oil filled types, that will operate satisfactorily at extreme temperatures, for use in **ADC** military type wave filters.

The combination of **ADC** engineering talent, finest components available, and manufacturing experience results in the smallest and lowest priced filters consistent with high operational standards.



Types of coils used in **ADC** wave filters. Materials include Mumetal, molded iron, Ferroxcube, Permalloy, etc.



Types of condensers used in **ADC** wave filters, including mica, waxed paper, and high temperature stability mineral oil types.

SPECIFICATIONS FOR ORDERING **ADC** FILTERS

Type (HP, BP, etc.)	_____
Input Impedance	_____ Type of Source
Output Impedance	_____ Type of Load
Operating Voltage or Power	_____ Test Voltage
Case Style	_____ Max. Case Size
Terminal Style	_____ Max. Height of Terminal
Service Conditions	_____
Government or Other Specifications	_____
Quantity	_____ Desired Delivery Date

Please tabulate attenuation desired and show circuit diagram of associated equipment, or give any special information which would more clearly indicate your requirements.

ADC

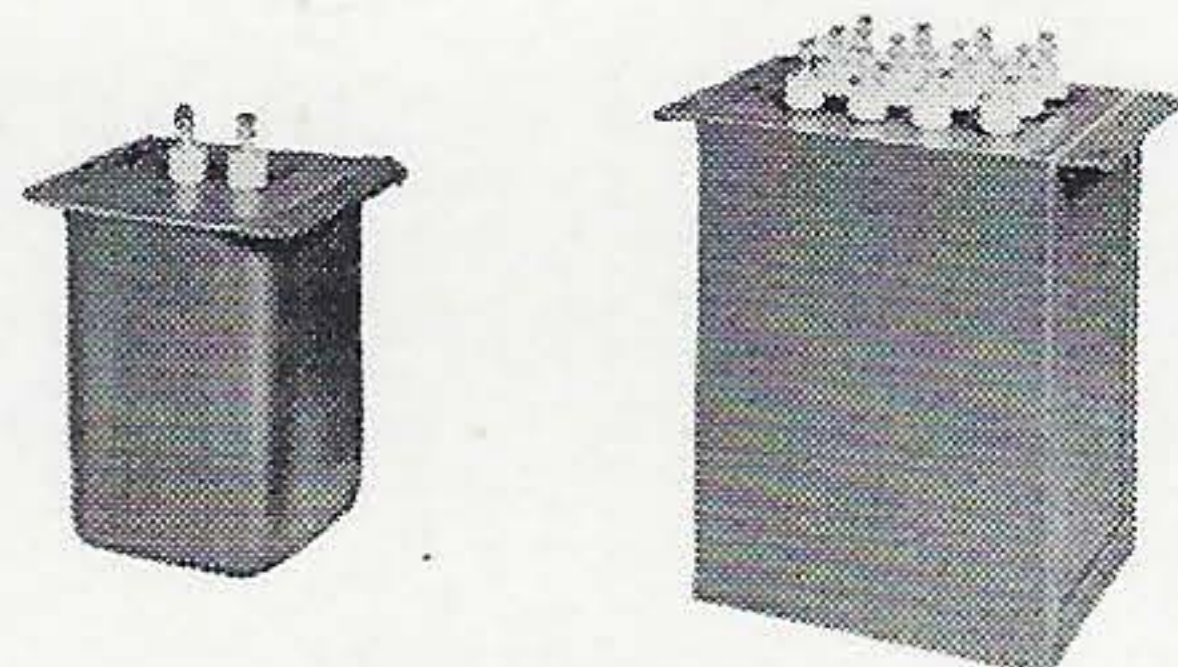
CUSTOM WORK

Audio Development Company has specialized in the design and manufacture of audio transformers, reactors, filters, power supplies, and related components required for custom built electronic equipment where dependability is of paramount importance. This specialization has proven to have been a wise choice as evidenced by the hundreds of loyal customers located all over the United States. If you have not experienced the satisfaction of doing business with this enterprising organization, send in your specifications directly, or discuss your problems with one of our field representatives listed in the forepart of this catalog. You will find that the wide experience of the **ADC** engineering group will demonstrate its practical value; they have all of the tools needed to assist you.

The **ADC** factory, shown on the back cover of this catalog, is a modern, one-story plant, well lighted and arranged to provide an even flow of parts in production. A completely equipped Model Shop produces samples of any transformers needed for laboratory study or pre-production testing. Each department within the factory is maintained at peak efficiency—the metal working group, the coil winding group, the laminating group, the potting group, paint shop—all are subject to inspection by a quality control unit. **ADC** products are carefully tested during each stage of manufacture and every unit is subjected to careful analysis and final test before being pronounced fit to bear the **ADC** symbol of trust.

Some of the special types of transformers manufactured by **ADC** are shown hereunder:

HERMETIC SEAL TYPES FOR MILITARY AND SEVERE CLIMATIC SERVICE

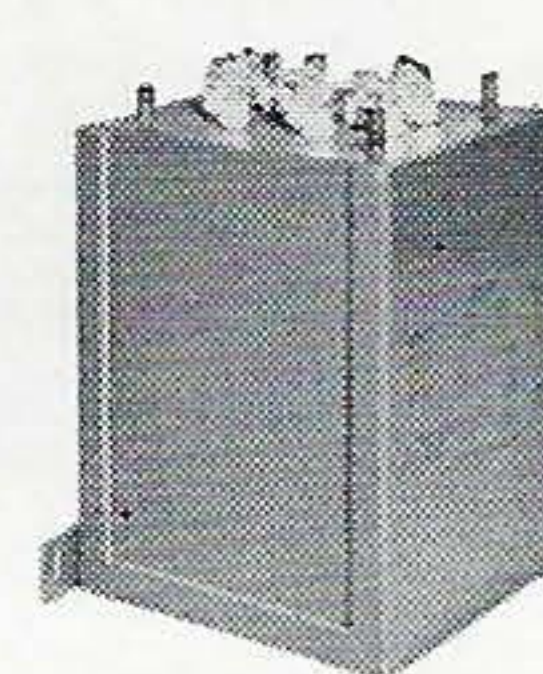


Flange Mountings

Hermetic Seal designs offered to meet MIL-T-27, CAA-R-777 and other Government Specifications. Cases and mountings can be readily adapted to your needs. See Page 3 for details.

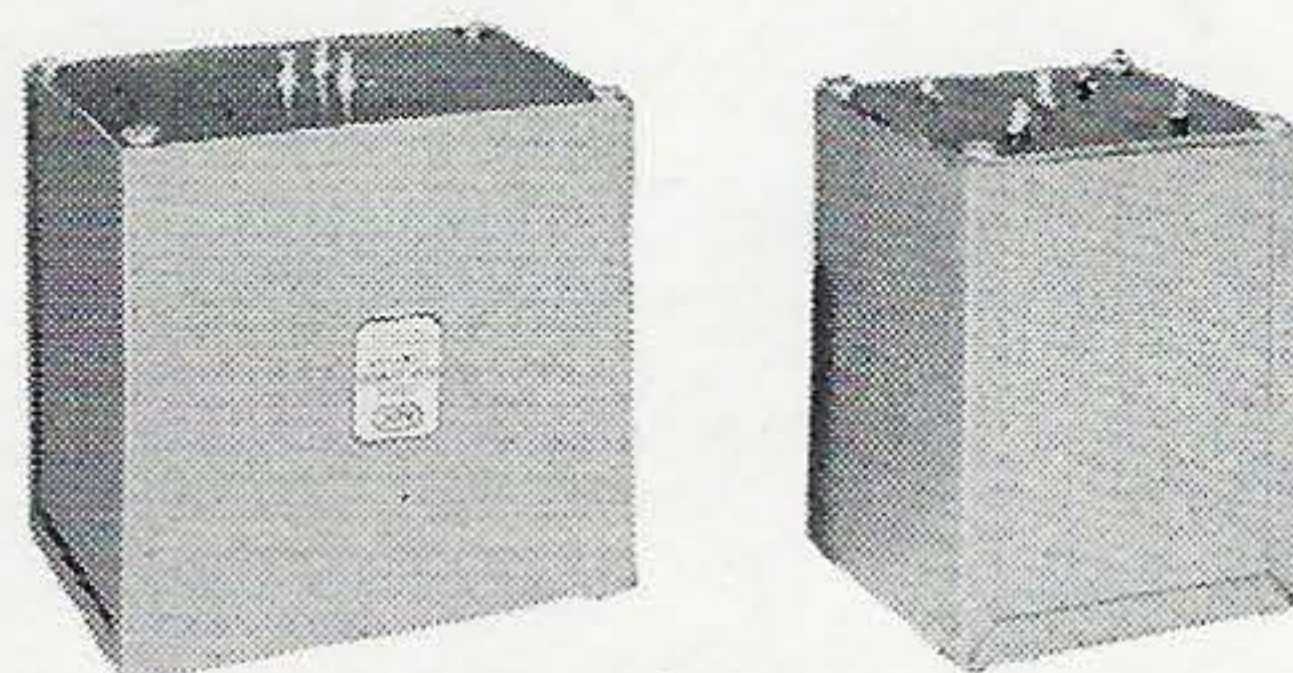


Insert Mounting



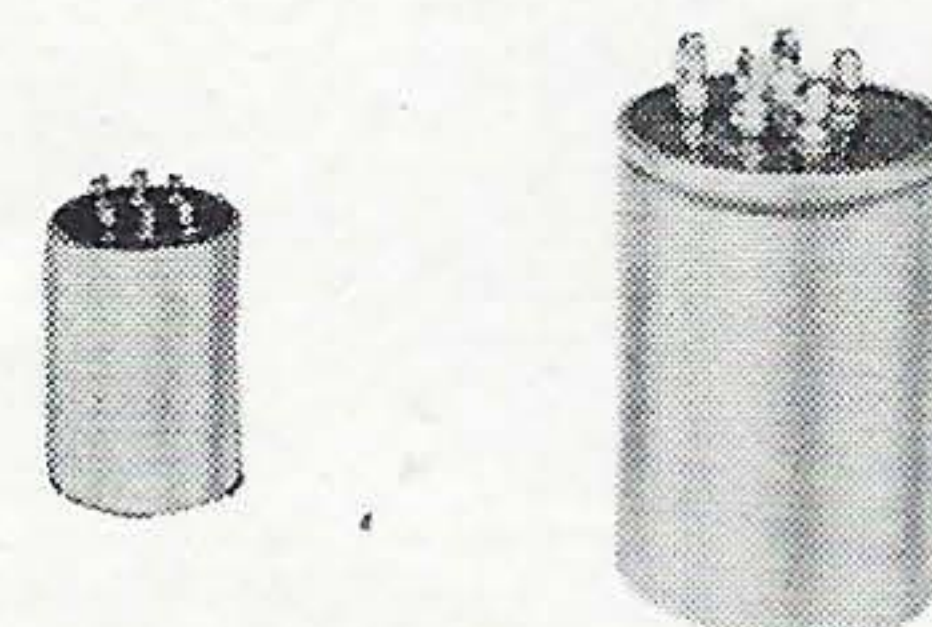
Stud Mounting

FULLY CASED AND COMPOUND FILLED TYPES FOR INDUSTRIAL SERVICE



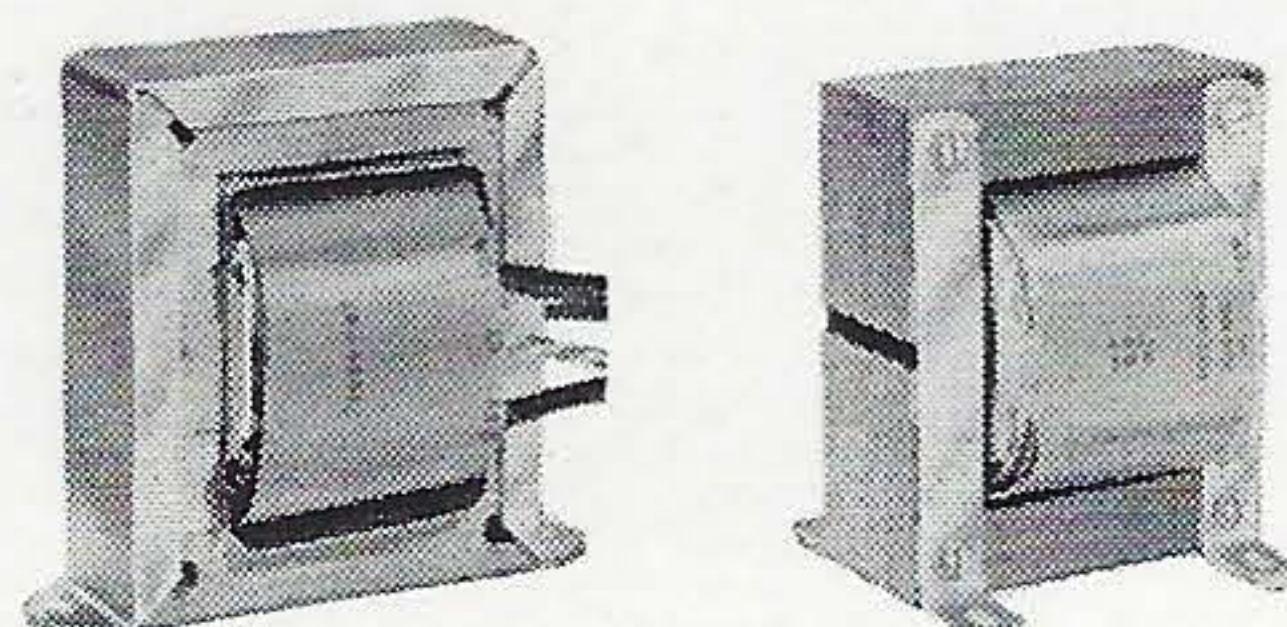
Type 10D Case (Reversible Mountings)

A type of construction that has proven satisfactory in all but the most severe climatic conditions. A wide variety of case types and mounting styles is available.

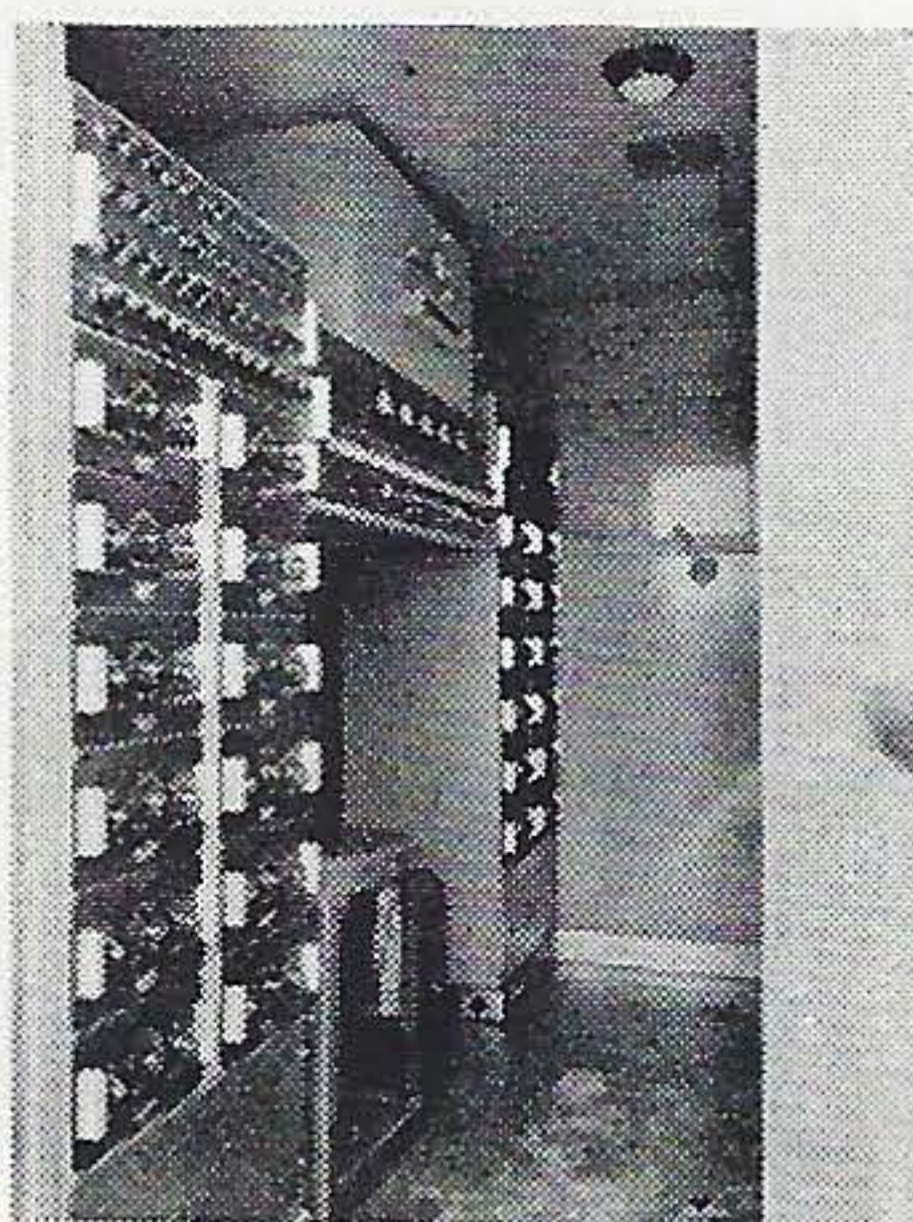
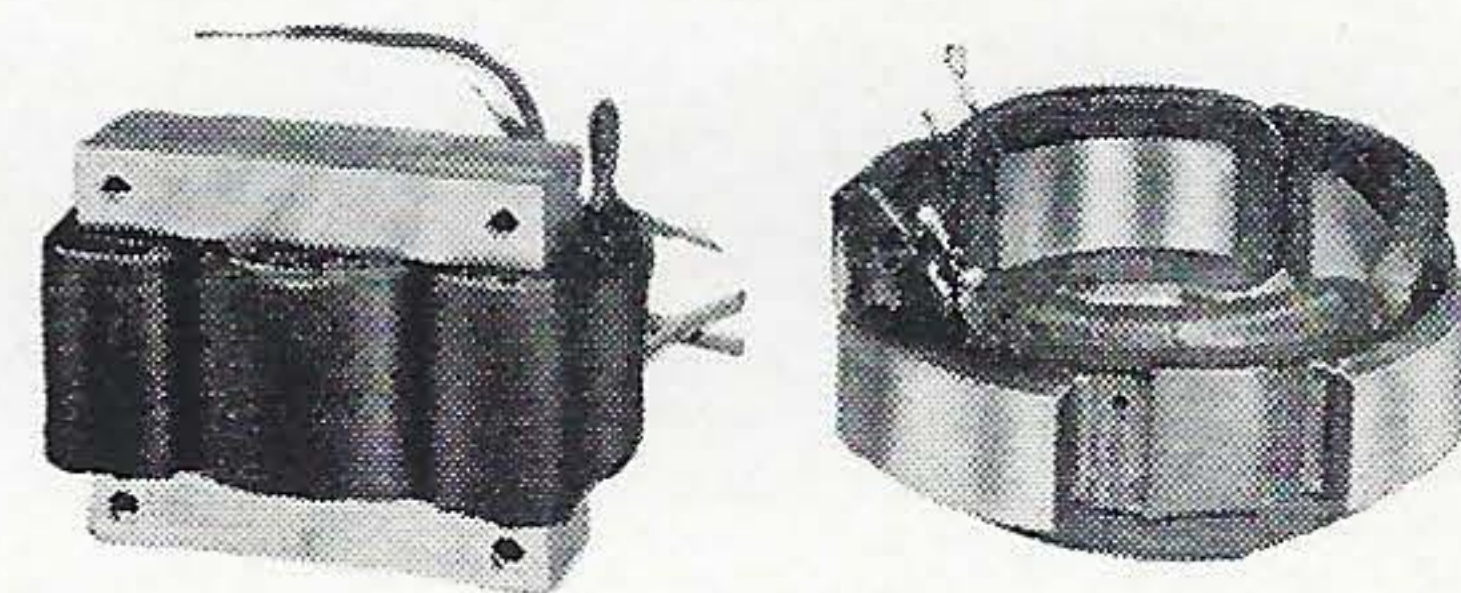


Miniature Types

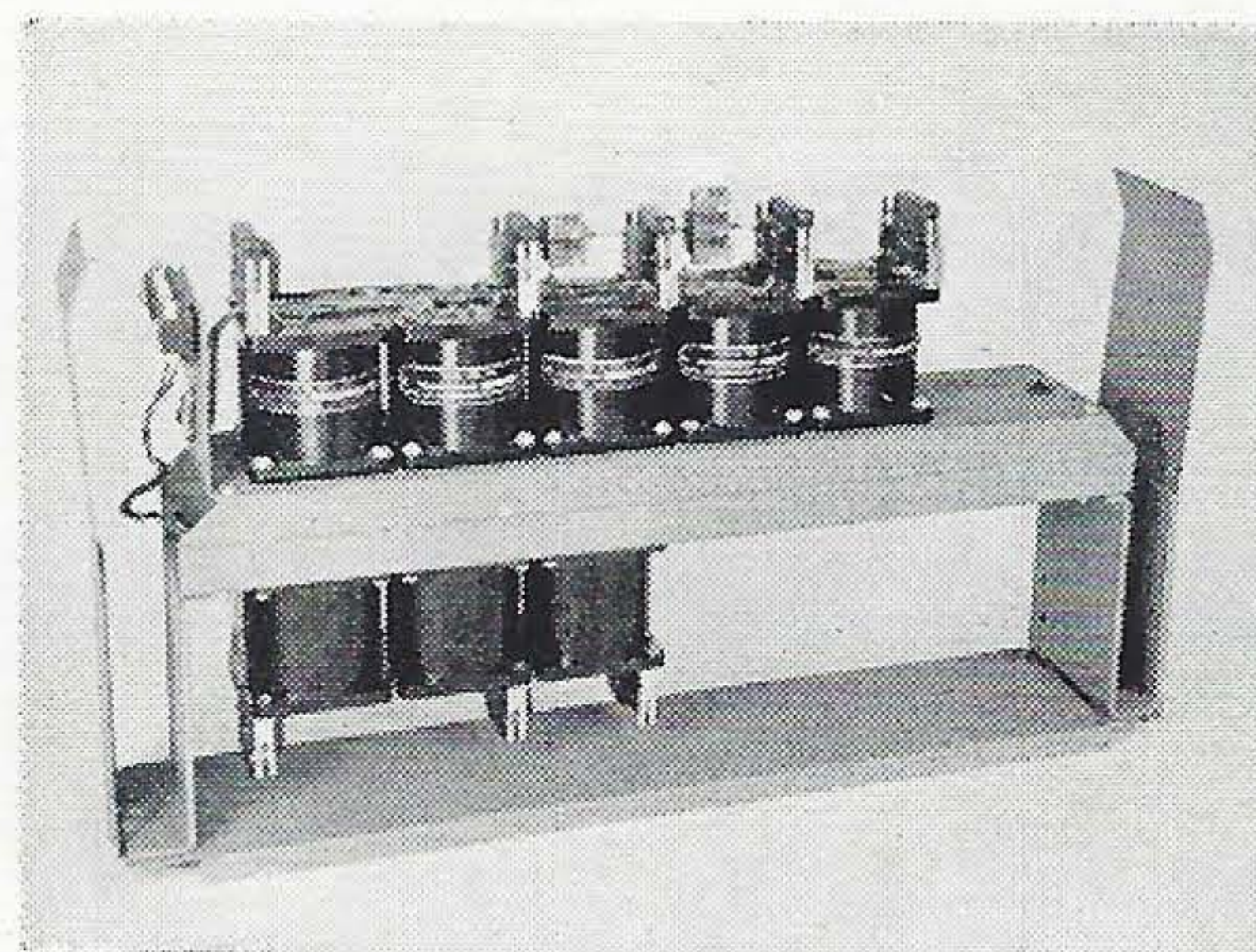
UNCASED TYPES FOR GENERAL COMMERCIAL APPLICATION



The Yeoman types of mounting are available where quality coil and core are desired with an inexpensive and simple mounting.



Geophysical
Portable Field Equipment



Western Union Tuner
Type 20 Carrier Equipment



U. S. Naval Lab. Filter

ADC

"AUDIO DEVELOPS THE FINEST"



Home Office
AND
Factory

AUDIO DEVELOPMENT COMPANY

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