

FREED



WMR DAVIS

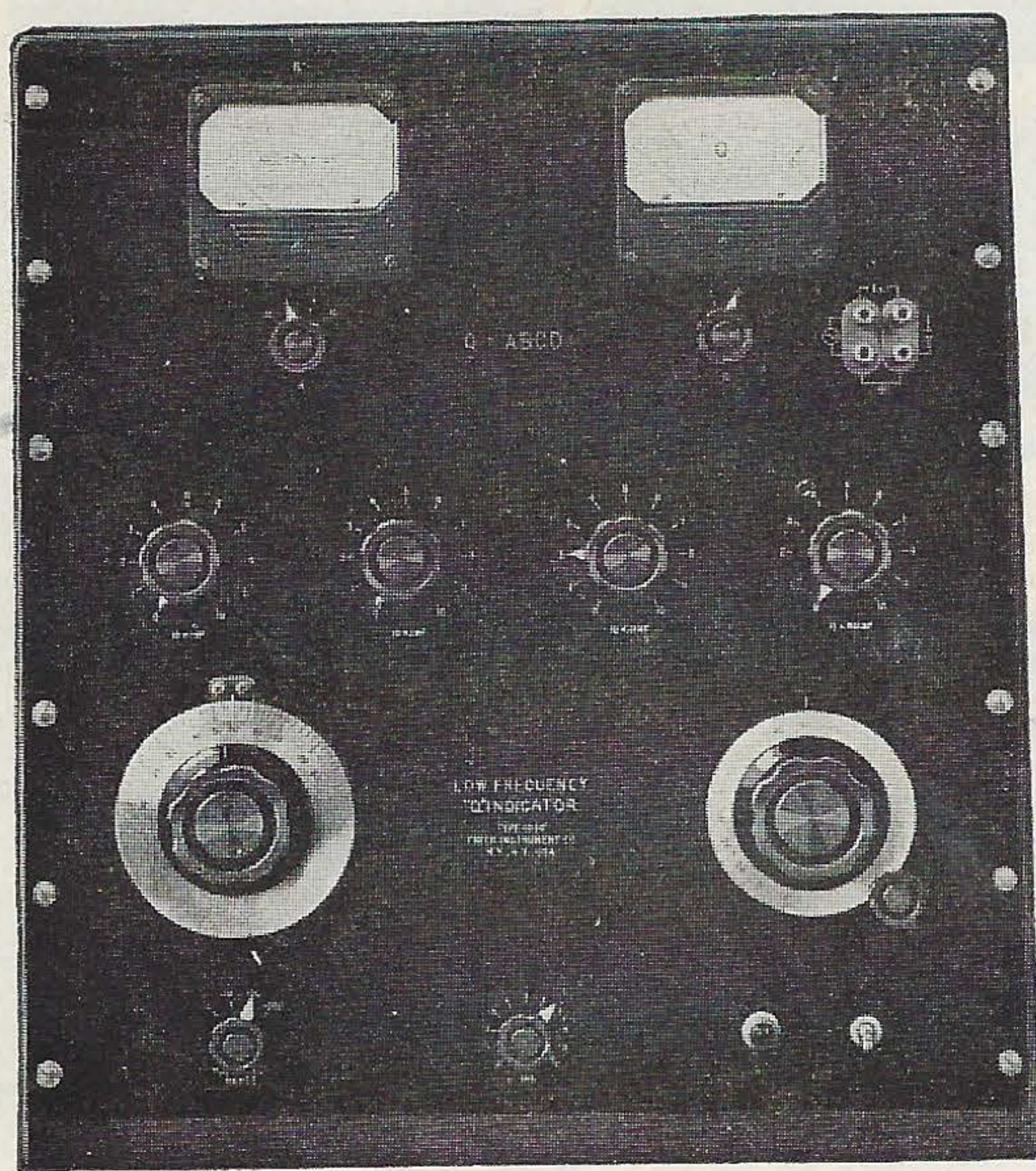
TRANSFORMERS

FREED TRANSFORMER CO., Inc., N.Y., N.Y.

FREED

Precision

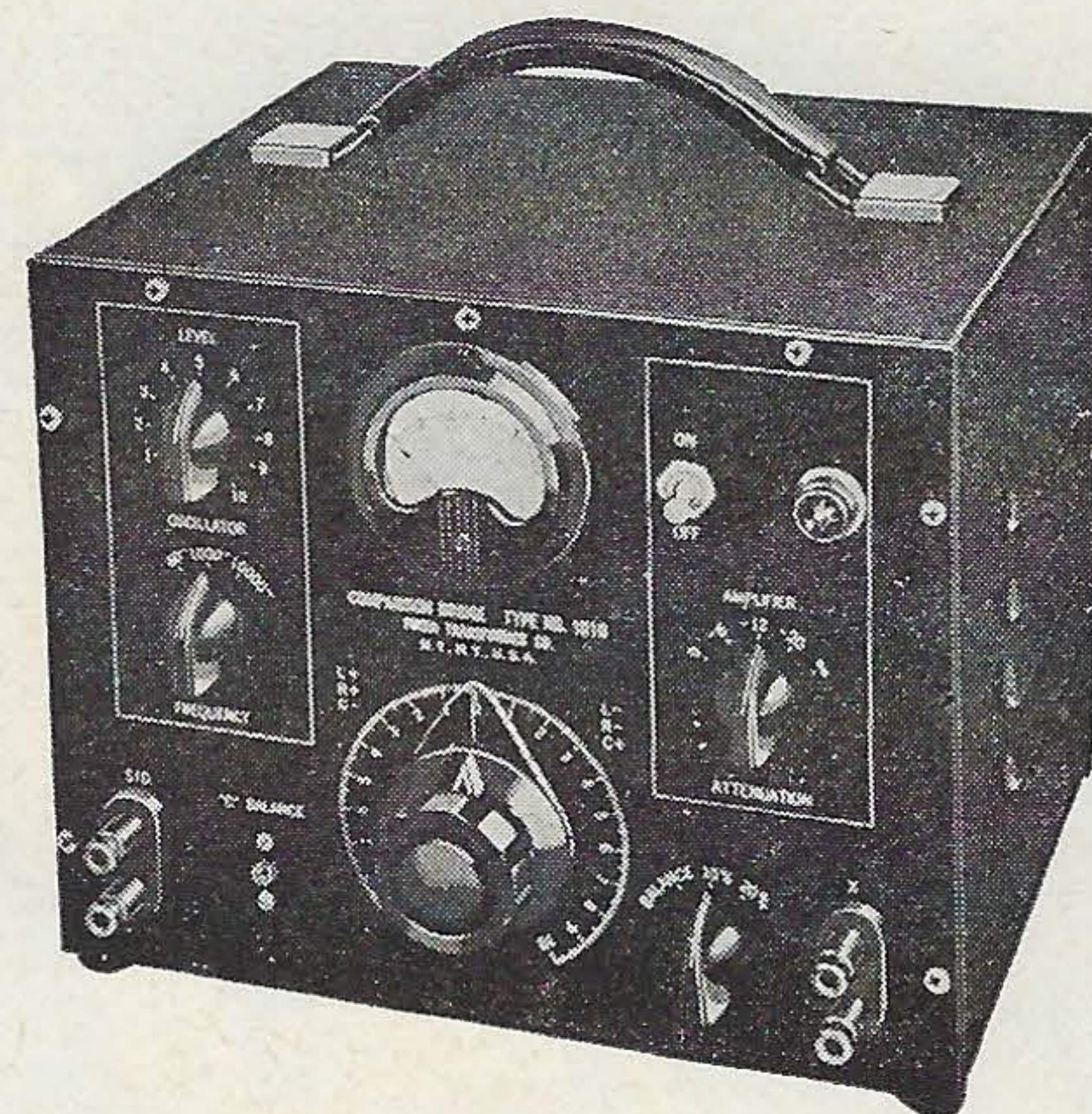
LABORATORY TEST EQUIPMENT



← No. 1030 LOW FREQUENCY "Q" INDICATOR
Direct reading "Q" indicator for frequencies from 50 cycles to 50,000 cycles. "Q" range from 0.5 to 500 with up to 50 volts across the coil.

No. 1010 COMPARISON BRIDGE

An invaluable instrument for precision laboratory adjustment and incoming inspection of resistors, capacitors and inductors. . . . Entirely self-contained, A.C. operated and includes a three frequency oscillator, an A.C. bridge and a null detector.



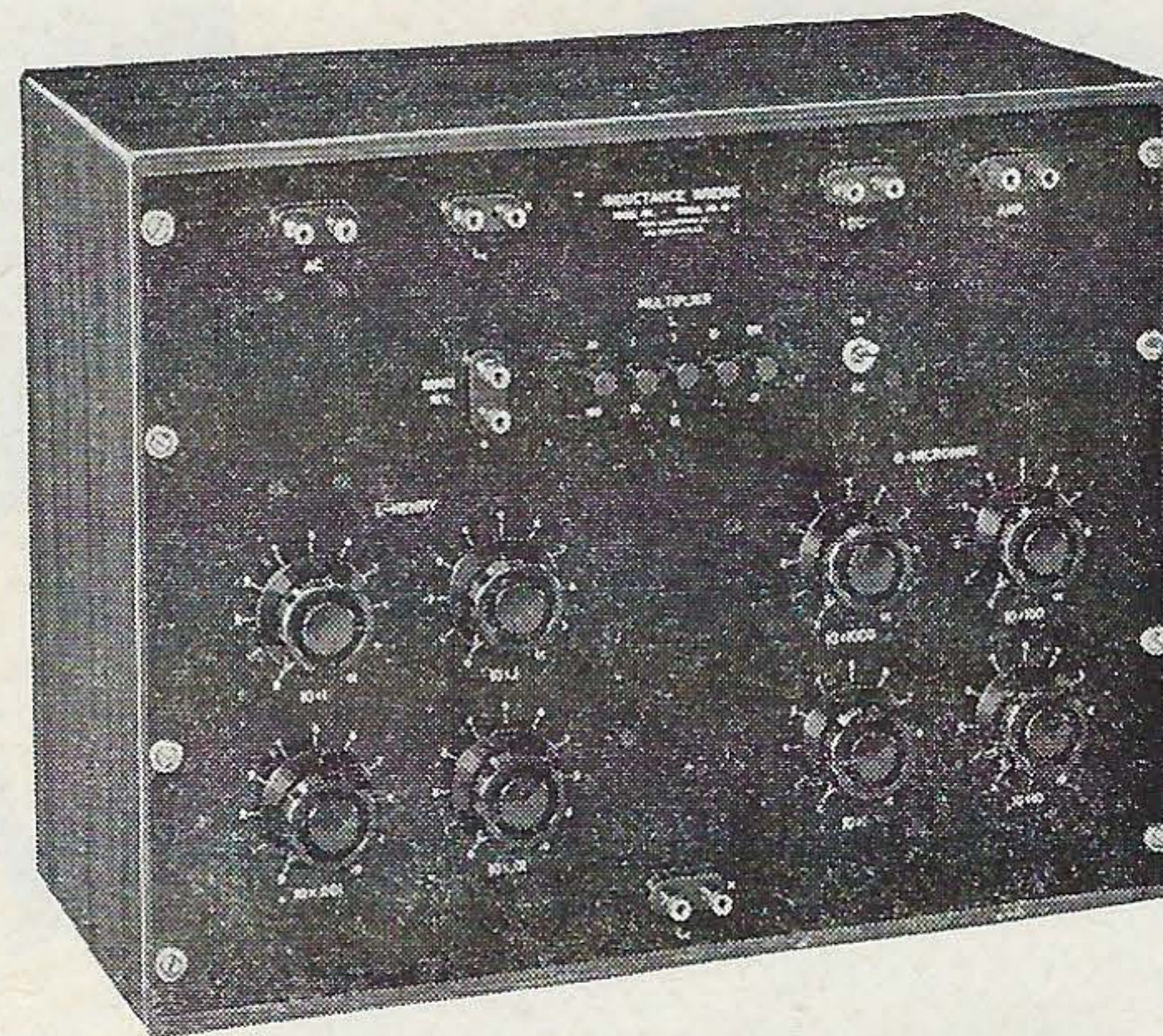
No. 1020 DIRECT READING ← MEGOHMMETER

Measures insulation resistances up to 2,000,000 megohms . . . 500 volt D.C. potential included in the instrument . . . Entirely self-contained and A.C. operated.



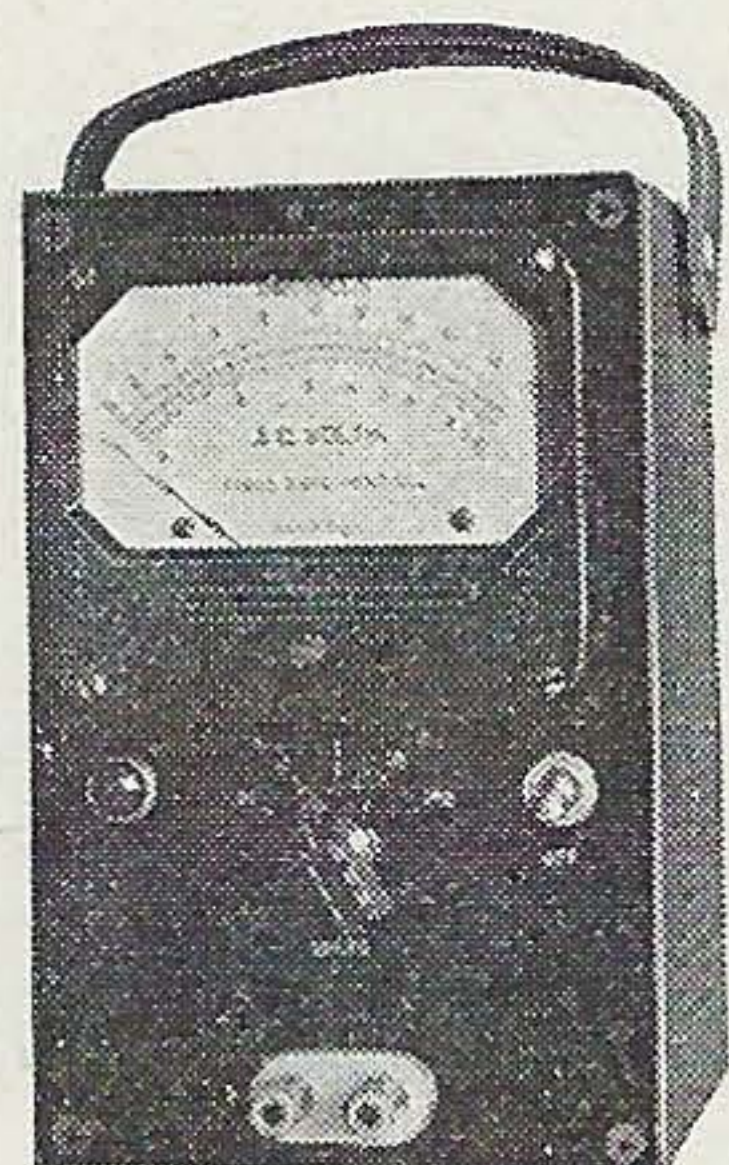
No. 1110 INCREMENTAL IN- DUCTANCE BRIDGE →

Inductance range from 1 Mhy to 1000H. . . . Frequency Range from 60 to 400 cycles. . . . D.C. range from .5 Ma to 1 Amp.



No. 1040 VACUUM TUBE TYPE VOLTMETER →

Voltage range from .001 volt to 100 volts .25 db from 10 cycles to 200,000 cycles Logarithmic voltage scale giving 2% accuracy at any point on the scale.



← No. 1060 VACUUM TUBE VOLTMETER

The 1060 wide range voltmeter can be used at audio, supersonic and radio frequencies. Frequency range from 10 cycles to 1.6 megacycles. Input impedance 50 megohms. Input capacity 15 mmf. Range from .001 to 100 volts in five steps. Logarithmic voltage scale giving 2% accuracy at any point on the scale.

FREED TRANSFORMER CO., INC.—INSTRUMENTS DIVISION

Send for Descriptive Literature

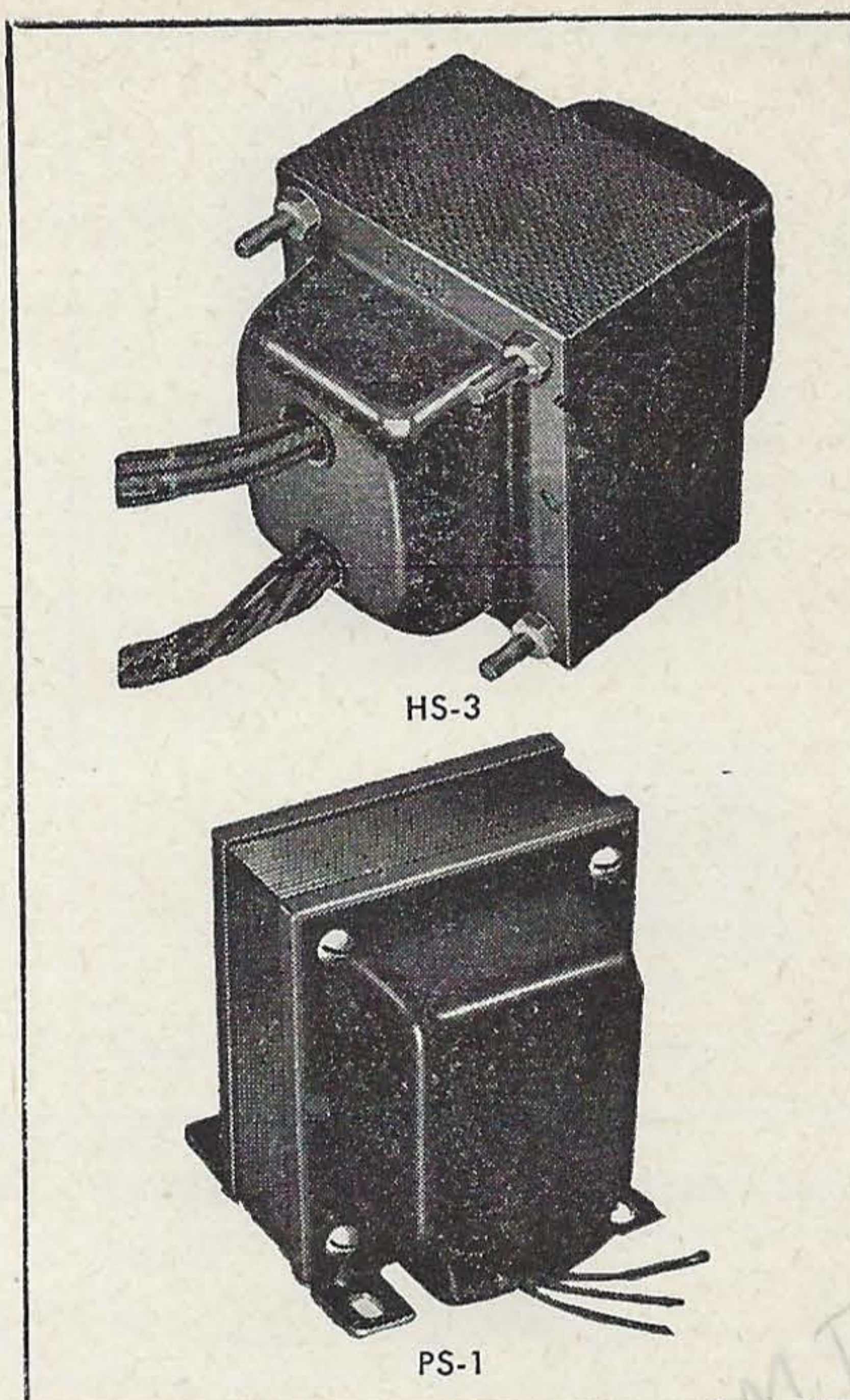
Universal Replacement POWER TRANSFORMERS

FREED



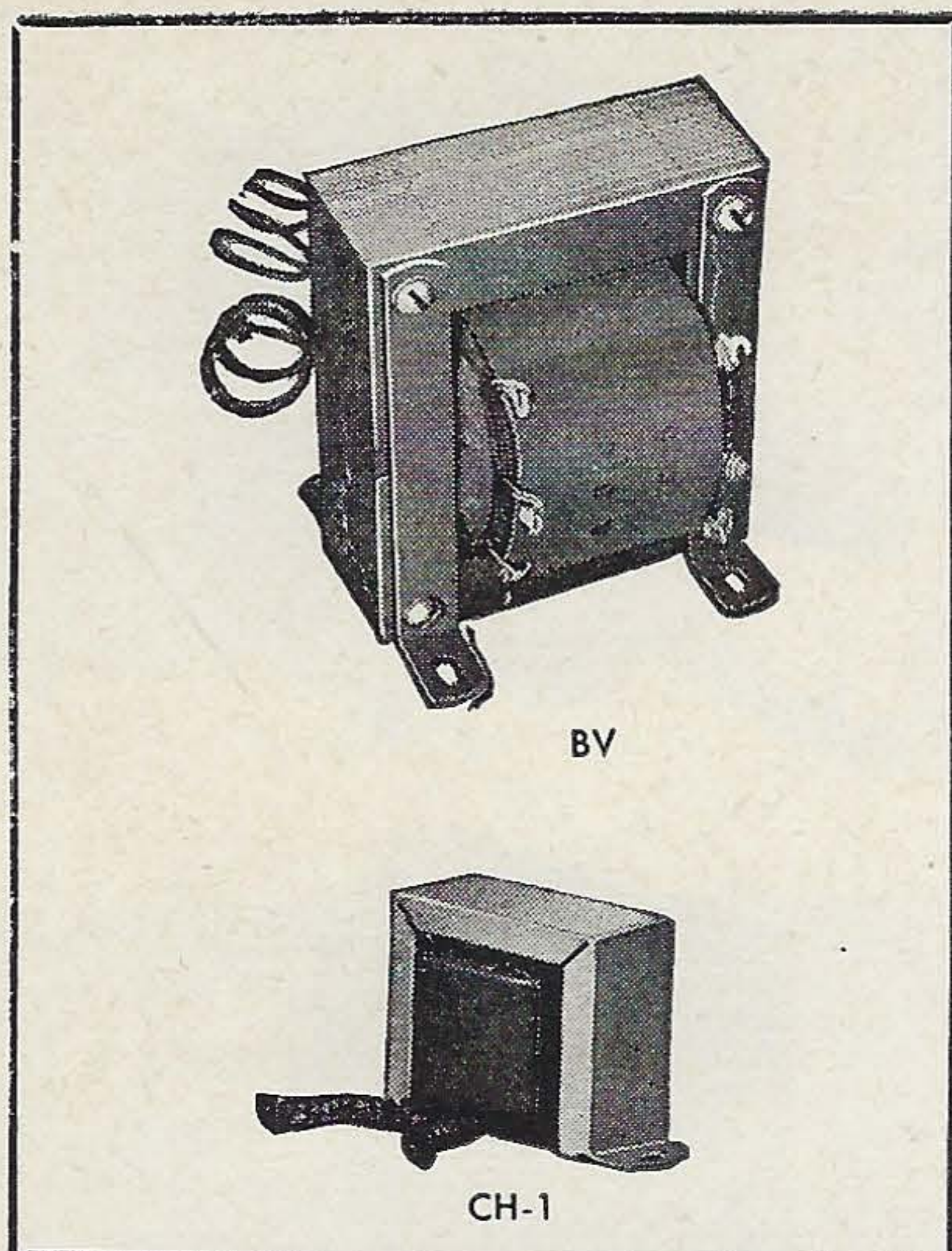
TRANSFORMER CO., INC.

This group of units provides replacement for the majority of existing radio receivers. The design of special mounting angles permits mounting in flush, vertical and horizontal positions. Leads are R.M.A. color coded.



Freed No.	H.V. A.C. Volts	C.T. D.C. Ma.	Rect.		Fil. C.T.		Fil. C. T.		Mounting Type	Mounting Center		Dimensions			Ship. Wt.	List Price
			V.	A.	V.	A.	V.	A.		W	D	W	D	H		
F-410 A	480	40	5	2	6.3	2			PS-1	2	1 ⁹ / ₁₆	2 ¹⁷ / ₃₂	2 ⁵ / ₈	3 ⁹ / ₆₄	2 ¹ / ₂	\$5.85
F-411 A	650	40	5	2	2.5	4			PS-1	2	1 ¹ / ₁₆	2 ¹⁷ / ₃₂	2 ³ / ₄	3 ⁹ / ₆₄	2 ³ / ₄	5.85
F-412 A	590	50	5	2	6.3	2			PS-1	2	1 ¹ / ₁₆	2 ¹⁷ / ₃₂	2 ⁷ / ₈	3 ⁹ / ₆₄	3	6.30
F-413 A	650	50	5/6.3	2/.6	6.3	2.5			PS-1	2	1 ¹ / ₁₆	2 ¹⁷ / ₃₂	2 ⁷ / ₈	3 ⁹ / ₆₄	3	6.90
F-414 A	700	50	5	2	2.5	7.5			PS-1	2	1 ¹ / ₁₆	2 ¹⁷ / ₃₂	2 ⁷ / ₈	3 ⁹ / ₆₄	3	7.30
F-415 A	700	70	5	2	2.5	9			PS-1	2 ¹ / ₄	1 ⁷ / ₈	2 ²⁷ / ₃₂	3 ¹ / ₈	3 ³¹ / ₆₄	4	7.60
F-416 A	700	70	5/6.3	2/.6	6.3	2.5			PS-1	2 ¹ / ₄	2	2 ²⁷ / ₃₂	3 ¹ / ₄	3 ³¹ / ₆₄	4 ³ / ₈	7.90
F-417 A	700	70	5	2	6.3	2.5			PS-1	2	2 ⁵ / ₁₆	2 ¹⁷ / ₃₂	3 ³ / ₈	3 ⁹ / ₆₄	4 ³ / ₈	7.55
F-418 A	700	90	5	2	2.5	12.5			PS-1	2 ¹ / ₂	2 ⁷ / ₈	3 ⁵ / ₃₂	3 ³ / ₄	3 ³¹ / ₆₄	5 ¹ / ₄	8.75
F-419 A	700	90	5	2	6.3	3.5			PS-1	2 ¹ / ₂	2 ¹ / ₈	3 ⁵ / ₃₂	3 ⁷ / ₈	3 ³¹ / ₆₄	5	8.30
F-420 A	700	120	5	3	2.5	3.5	2.5	12.5	PS-1	3	2 ⁵ / ₁₆	3 ²⁵ / ₃₂	3 ¹ / ₂	4 ¹ / ₄	6 ¹ / ₂	10.20
F-421 A	700	120	5	3	6.3	5			PS-1	2 ¹ / ₂	2 ⁵ / ₁₆	3 ⁵ / ₃₂	3 ⁵ / ₈	3 ³¹ / ₆₄	5 ¹ / ₄	9.10
F-422 A	750	150	5	3	6.3	5			PS-1	3	2 ⁹ / ₁₆	3 ²⁵ / ₃₂	3 ³ / ₄	4 ¹ / ₄	6 ¹ / ₂	10.90
F-423 A	750	150	5	3	6.3	5	2.5	5	PS-1	3	2 ⁹ / ₁₆	3 ²⁵ / ₃₂	3 ³ / ₄	4 ¹ / ₄	7	12.00
F-424 A	800	200	5	4	6.3	5			PS-1	3	2 ¹ / ₁₆	3 ²⁵ / ₃₂	3 ⁷ / ₈	4 ¹ / ₄	7 ³ / ₈	12.45
F-410	480	40	5	2	6.3	2			HS-3	2 ¹ / ₂	2	3	2 ¹ / ₂	2 ¹ / ₂	2 ¹ / ₂	4.50
F-411	650	40	5	2	2.5	4			HS-3	2 ¹ / ₂	2	3	2 ¹ / ₂	2 ⁵ / ₈	2 ³ / ₄	4.50
F-412	590	50	5	2	6.3	2			HS-3	2 ¹ / ₂	2	3	2 ¹ / ₂	2 ³ / ₄	3	4.55
F-413	650	50	5/6.3	2/.6	6.3	2.5			HS-3	2 ¹ / ₂	2	3	2 ¹ / ₂	2 ³ / ₄	3	5.10
F-414	700	50	5	2	2.5	7.5			HS-3	2 ¹ / ₂	2	3	2 ¹ / ₂	2 ³ / ₄	3	5.75
F-415	700	70	5	2	2.5	9			HS-3	2 ¹ / ₂	2 ¹ / ₄	3 ³ / ₈	2 ¹ / ₂	3	4	6.00
F-416	700	70	5/6.3	2/.6	6.3	2.5			HS-3	2 ¹ / ₂	2 ¹ / ₄	3 ³ / ₈	2 ¹ / ₂	3 ¹ / ₈	4 ³ / ₈	6.35
F-417	700	70	5	2	6.3	2.5			HS-3	2 ¹ / ₂	2	3	2	3 ¹ / ₈	4 ³ / ₈	5.75
F-418	700	90	5	2	2.5	12.5			HS-3	3 ¹ / ₈	2 ¹ / ₂	3 ³ / ₄	3 ¹ / ₈	3 ¹ / ₂	5 ¹ / ₄	7.05
F-419	700	90	5	2	6.3	3.5			HS-3	3 ¹ / ₈	2 ¹ / ₂	3 ³ / ₄	3 ¹ / ₈	3 ¹ / ₄	5	6.50
F-420	700	120	5	3	2.5	3.5	2.5	12.5	HS-3	3 ³ / ₄	3	4 ¹ / ₂	3 ³ / ₄	3 ¹ / ₄	6 ¹ / ₂	8.70
F-421	700	120	5	3	6.3	5			HS-3	3 ¹ / ₈	2 ¹ / ₂	3 ³ / ₄	3 ¹ / ₈	3 ³ / ₈	5 ¹ / ₄	7.15
F-422	750	150	5	3	6.3	5			HS-3	3 ³ / ₄	3	4 ¹ / ₂	3 ³ / ₄	3 ¹ / ₄	6 ¹ / ₂	9.40
F-423	750	150	5	3	6.3	5	2.5	5	HS-3	3 ³ / ₄	3	4 ¹ / ₂	3 ³ / ₄	3 ¹ / ₂	7	10.15
F-424	800	200	5	4	6.3	5			HS-3	3 ³ / ₄	3	4 ¹ / ₂	3 ³ / ₄	3 ⁵ / ₈	7 ³ / ₈	10.90

The above transformers are designed for primary operation of 115 volts 50-60 cycles. They are also available for 220 volts 60 cycles and 115 volts 25 cycles.



Replacement FILTER CHOKES and VIBRATOR TRANSFORMERS

FREED



TRANSFORMER CO., INC.

REPLACEMENT FILTER CHOKES

Freed No.	Ind. Henry	D.C. Cur.	D.C. Res.	R.M.S. Test Volt.	Mounting Type	Mtg. Centers		Dimensions			Weight	List Price
						W	D	W	D	H		
F-600	3	40	160	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	\$1.40
F-601	4	40	200	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-602	6	40	300	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-603	9	40	400	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-604	11	40	500	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-605	7	55	200	1600	CH-1	2 3/8		2 13/16	1 3/4	1 11/16	3/4	1.45
F-606	9	55	300	1600	CH-1	2 3/8		2 13/16	1 3/4	1 11/16	3/4	1.45
F-607	10	55	400	1600	CH-1	2 3/8		2 13/16	1 3/4	1 11/16	3/4	1.45
F-608	13	55	500	1600	CH-1	2 3/8		2 13/16	1 3/4	1 11/16	3/4	1.45
F-609	20	30	1250	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.75
F-610	6	50	400	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-611	4	60	300	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-612	3	75	200	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	1.40
F-613	15	35	625	1600	CH-1	2 3/8		2 13/16	1 3/4	1 7/16	3/4	1.45
F-614	5	75	200	1600	CH-1	2 3/8		2 13/16	1 3/4	1 7/16	3/4	1.45
F-615	20	50	475	1600	CH-1	2 13/16		3 1/4	2	2	1 1/2	2.55
F-616	10	75	250	1600	CH-1	2 13/16		3 1/4	2	2	1 1/2	2.40
F-617	6	100	150	2000	CH-1	2 13/16		3 1/4	2	2	1 1/2	2.40
F-618	3.5	150	100	2000	CH-1	2 13/16		3 1/4	2	2	1 1/2	2.40
F-619	2	200	60	2000	CH-1	2 13/16		3 1/4	2	2	1 1/2	2.40

VIBRATOR TRANSFORMERS

Designed for Automobile Receivers Using
A Vibrator from a Six Volt Battery Source.

Freed No.	D.C. Output Deliver by Sec.		Style Mtg.	Mounting Dimensions		Dimensions			Weight	List Price
	Volts	Ma.		W	D	W	D	H		
F-450	225	40	BV	2	1 3/4	2 1/2	2	3 1/16	2	\$4.25
F-451	250	50	BV	2	1 7/8	2 1/2	2 1/8	3 1/16	2 1/4	4.60
F-452	250	60	BV	2 1/4	1 3/4	2 13/16	2 1/8	3 7/16	2 1/2	5.30
F-453	275	70	BV	2 1/4	1 7/8	2 13/16	2 1/4	3 7/16	3	6.00
F-454	350	75	BV	2 1/4	2	2 13/16	2 3/8	3 7/16	3 1/2	6.50

COMPONENTS AVAILABLE TO CUSTOMERS' SPECIFICATIONS

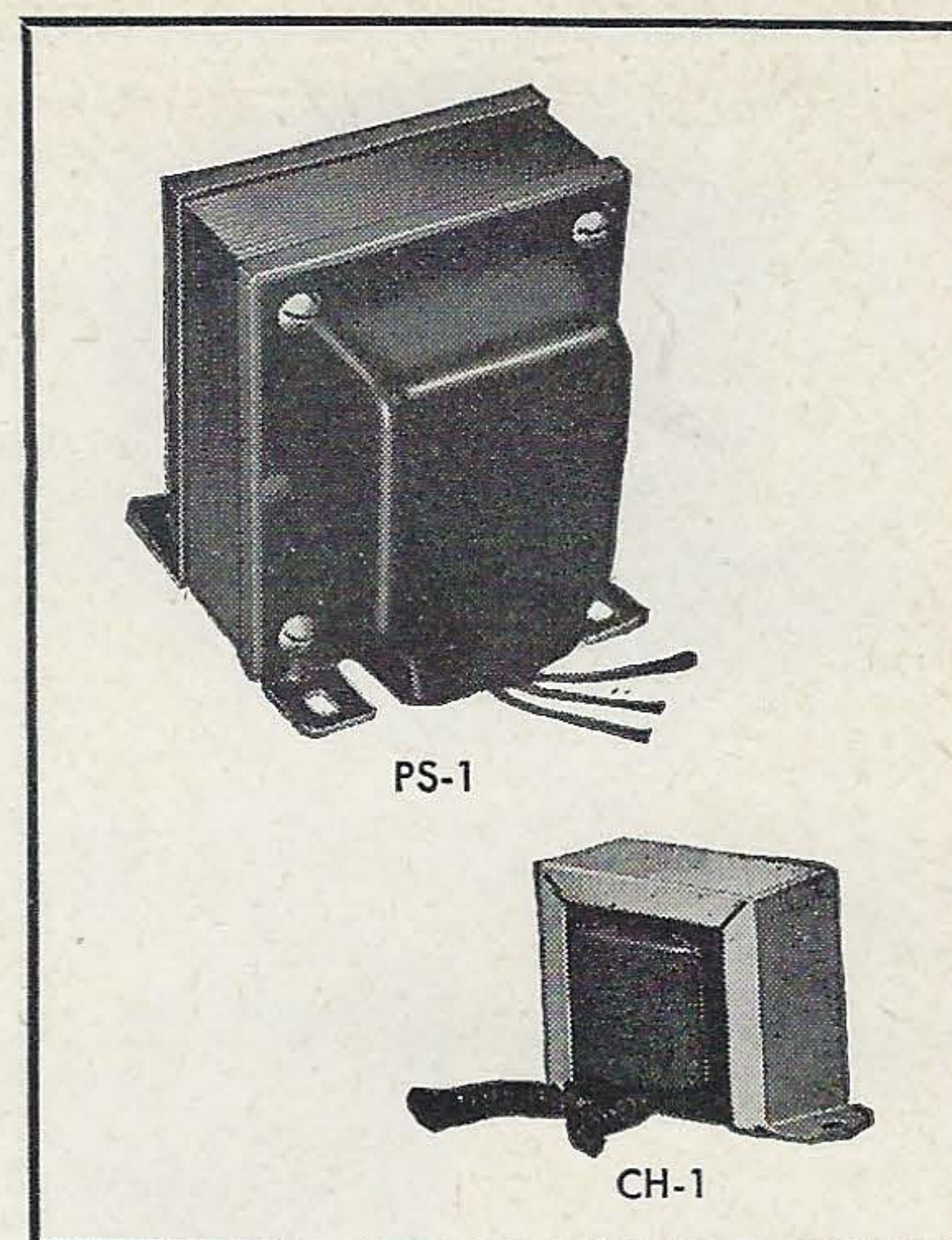
- Driver Transformers
- Modulation Transformers
- Hybrid Transformers
- Bridging Transformers
- Oscillator Transformers
- Pulse Transformers
- Phase Shift Transformers
- Phase Shift Chokes
- Saturable Core Reactors
- Equalizers
- Wave Filters
 - Low Pass Filters
 - High Pass Filters
 - Band Pass Filters
 - Band Elimination Filters
- Audio Frequency Discriminators
- Tuned Circuits

CHOKES and AUDIO REACTORS



FREED

TRANSFORMER CO., INC.



AMPLIFIER AND SMALL TRANSMITTER FILTER CHOKES Rated under full D.C. current.

Freed No.	Ind. Hen.	D.C. Cur.	D.C. Resis.	R.M.S. Test Volts	Mounting Type	Mounting Dimensions		Dimensions			Weight	List Price
						W	D	W	D	H		
F-620	20	50	475	1600	PS-1	1 1/2	1 5/8	1 7/8	2 1/2	2 5/16	1 3/4	\$3.15
F-621	10	75	250	1600	PS-1	1 1/2	1 3/8	1 7/8	2 1/4	2 5/16	1 1/2	3.05
F-622	6	100	150	2000	PS-1	1 1/2	1 3/8	1 7/8	2 1/4	2 5/16	1 1/2	3.05
F-623	3.5	150	100	2000	PS-1	1 1/2	1 3/8	1 7/8	2 1/4	2 5/16	1 1/2	3.05
F-624	2	200	60	2000	PS-1	1 1/2	1 3/8	1 7/8	2 1/4	2 5/16	1 1/2	3.05
F-625	20	75	375	1600	PS-1	1 3/4	1 1/2	2 3/16	2 3/8	2 1/16	2 1/8	3.25
F-626	10	110	210	2000	PS-1	1 3/4	1 5/8	2 3/16	2 1/2	2 1/16	2 1/4	3.40
F-627	5	150	100	2000	PS-1	1 3/4	1 1/2	2 3/16	2 3/8	2 1/16	2 1/8	3.25
F-628	20	100	400	2000	PS-1	2	1 11/16	2 5/8	3	3 9/16	3 1/2	4.95
F-629	10	125	240	2000	PS-1	2	1 11/16	2 5/8	2 3/4	3 9/16	3	4.60
F-630	12	160	180	2500	PS-1	2	2 1/16	2 5/8	3 1/8	3 9/16	3 1/2	4.95
F-631	7	200	100	2500	PS-1	2	1 11/16	2 5/8	3	3 9/16	3 1/2	4.95
F-632	5	250	70	3000	PS-1	2	1 11/16	2 5/8	3	3 9/16	3 1/2	4.95
F-633	12	180	235	2500	PS-1	2 1/4	1 7/8	2 3/2	3 1/8	3 3/4	4	5.70
F-634	10	200	150	2500	PS-1	2 1/4	2	2 3/2	3 1/4	3 3/4	4 1/4	5.85
F-635	5	300	65	3000	PS-1	2 1/4	2 1/8	2 3/2	3 3/8	3 3/4	4 1/2	5.85
F-636	20	160	330	2500	PS-1	2 1/2	2 1/8	3 5/2	3 7/8	3 5/4	5 1/8	7.30
F-637	15	200	200	2500	PS-1	2 1/2	2 5/16	3 5/2	3 5/8	3 5/4	5 1/2	7.30
F-638	10	250	135	3000	PS-1	2 1/2	2 5/16	3 5/2	3 5/8	3 5/4	5 1/2	7.30
F-639	20	250	160	3000	PS-1	3	3 1/16	3 5/2	4 1/4	4 1/4	10	9.90

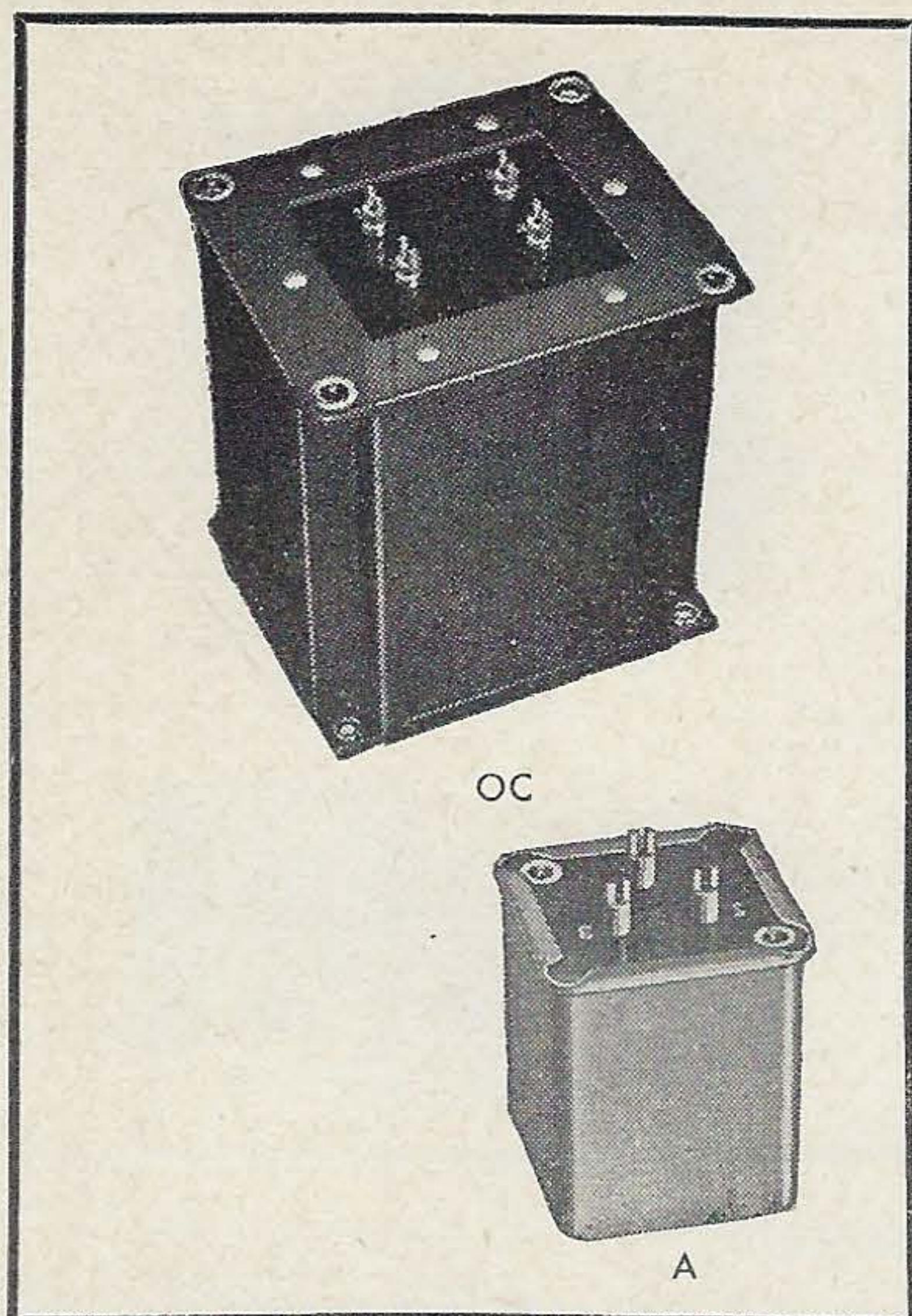
AMPLIFIER AND SMALL TRANSMITTER SWINGING CHOKES Rated under full D.C. current.

F-640	5-25	160	180	2500	PS-1	2	1 11/16	2 5/8	2 3/4	3 9/16	3	\$4.95
F-641	5-25	180	235	2500	PS-1	2 1/4	1 7/8	2 3/2	3 1/8	3 3/4	4	5.70
F-642	5-20	200	150	2500	PS-1	2 1/4	2	2 3/2	3 1/4	3 3/4	4 1/4	5.85
F-643	5-30	200	200	2500	PS-1	2 1/2	2 5/16	3 5/2	3 5/8	3 5/4	5 1/2	7.30
F-644	5-20	250	135	3000	PS-1	2 1/2	2 5/16	3 5/2	3 5/8	3 5/4	5 1/2	7.30

PARALLEL FEED AUDIO REACTORS

Designed to eliminate the direct current component in the primary of audio transformers to be used as plate coupling reactor where the use of a high resistance is objectionable. Low distributed capacity insures excellent high frequency response.

F-645	100	10	3500	1600	CH-1	2		2 3/8	1 5/8	1 7/16	1/2	\$1.95
F-646	350	.5	4900	1600	CH-1	2 3/8		2 13/16	1 3/4	1 11/16	3/4	2.10
F-647	500	.5	6150	1600	CH-1	2 13/16		3 1/4	2	2	1 1/2	3.00
F-648	700	.5	6150	1600	CH-1	2 13/16		3 1/4	2	2	1 1/2	3.00
F-649	30	35	650	1600	CH-1	2 13/16		3 1/4	2	2	1 1/2	2.55



FILTER CHOKES and **HI "Q" REACTORS**

FREED



TRANSFORMER CO., INC.

HUM BUCKING CONSTRUCTION FILTER CHOKES
Designed for Series - Parallel Operation at Full Rated Load and Low Temperature Rise

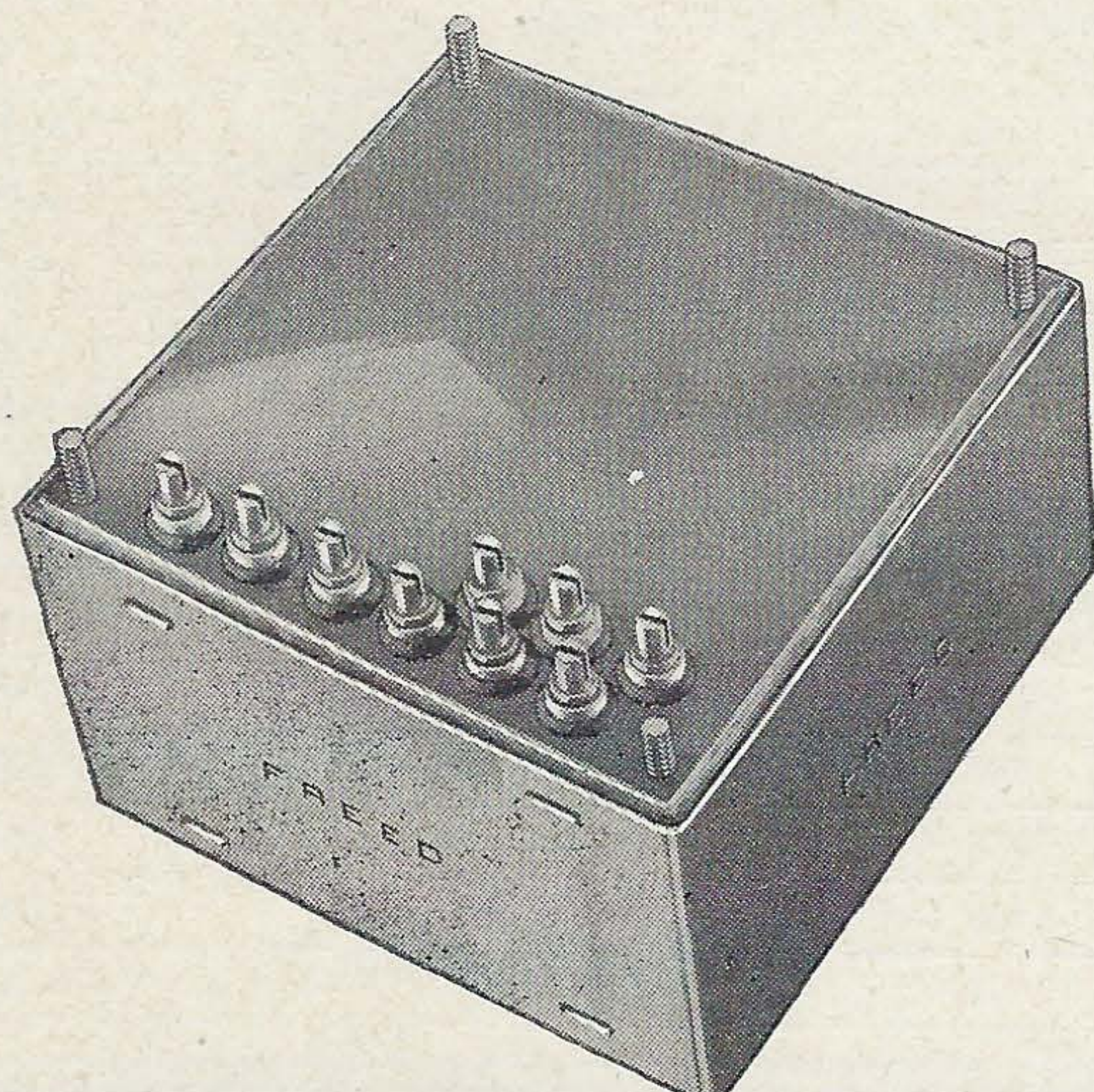
Freed No.	Induct.	D.C. Cur.	D.C. Resis.	R.M.S. Test Volts	Mounting Type	Mtg. Dimensions		Dimensions			Weight Lbs.	List Price
						W	D	W	D	H		
F-700	320/80	3/6	6000/1500	2500	OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	3	\$11.00
F-701	100/25	35/70	1400/350	2500	OC	3 1/8	2 1/8	4 1/8	3 1/2	4 5/8	7 1/2	11.25
F-702	50/12.5	50/100	600/150	2500	OC	2 1/8	2 3/8	3 1/8	2 1/8	3 1/8	5 1/2	11.25
F-703	50/12.5	100/200	528/132	3000	OC	4 1/2	3 5/8	5 1/8	4 3/8	5 3/8	10	20.30
F-704	16/4	125/250	240/60	3000	OC	3 1/8	2 1/8	4 1/8	3 1/2	4 5/8	7	11.25
F-705	16/4	175/350	88/22	5000	OC	4 1/2	3 5/8	5 1/8	4 3/8	5 3/8	10	20.30
F-706	24/6	200/400	160/40	7500	OC	5 1/2	5 1/2	6 5/8	6 5/8	7 1/4	20	36.50

HI "Q" REACTORS

To be used in filters or tuned circuits.
Standard values range from 10 millihenries to 50 henries

Freed No.	Application	Ind. Hen.	Cur. MA	DC Ohms	Mounting Type	Mounting Dimensions		Dimensions			Weight Lbs.	List Price
						W	D	D	W	H		
F-750	Filters, tuned circuits	10	10	1200	A	1 5/8	*	1 1/8	1 1/8	2"	1/2	\$ 5.70
F-751	Filter or tuned circuits	1	20	315	A	1 5/8	*	1 1/8	1 1/8	2"	1/2	5.70
F-752	Filter or tuned circuits	.25	20	30	A	1 5/8	*	1 1/8	1 1/8	2"	1/2	5.70
F-753	Filter or tuned circuits	2	30	190	OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	2	11.40
F-754	Filter or tuned circuits	.5	30	75	OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	2	11.40

The mounting dimension 1 5/8 is given between centers across corners.



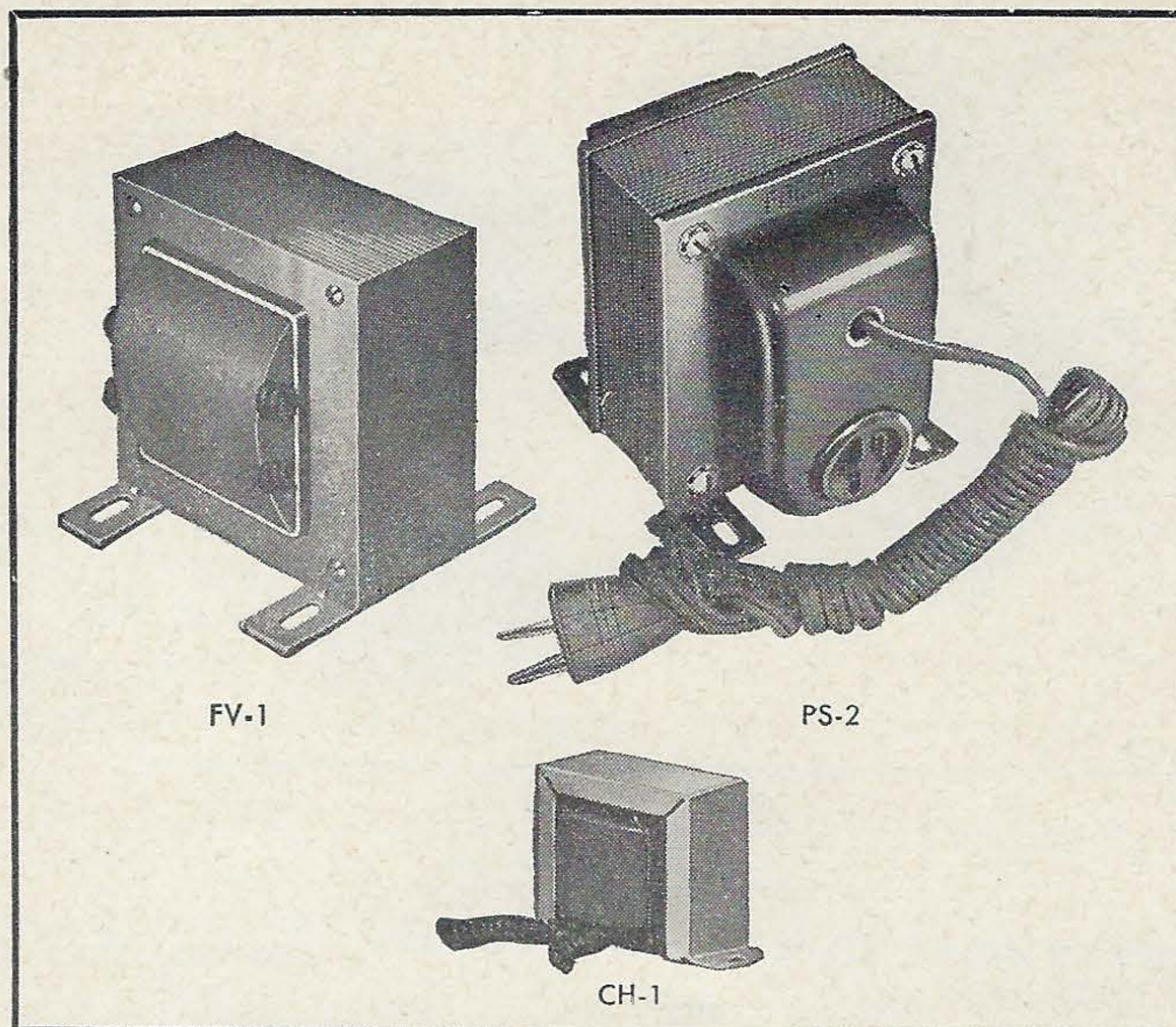
THE FREED MULTICHANNEL FILTER

The unit is a five channel interstage type narrow bandpass filter designed for frequency selective remote control applications. The five inputs are connected in parallel, the five outputs are available separately. The frequency characteristic of each individual filter is ± 1.5 DB for $\pm 10\%$ of the nominal frequency. The attenuation per octave ranges from 35 to 40 DB. Each individual filter provides a step up ratio of 6 DB. The units are designed for a 10,000 ohms input impedance. Filters of this type can be supplied for frequencies from 300 to 10,000 cps.

FILAMENT, AUTO and ISOLATION TRANSFORMERS

FREED

TRANSFORMER CO., INC.



FILAMENT TRANSFORMERS

Part No.	Fil. V	C.T. A	Test Volts R.M.S.	Mounting Type	Mounting Centers		Dimensions			Weight Lbs.	List Price
					W	D	W	D	H		
F-210	2.5	3	1600	CH-1	2 $\frac{3}{8}$		2 $\frac{13}{16}$	1 $\frac{3}{4}$	1 $\frac{11}{16}$	$\frac{3}{4}$	\$2.05
F-211	2.5	7.5	1600	CH-1	2 $\frac{13}{16}$		3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	2.90
F-212	2.5	12	1600	CH-1	3 $\frac{1}{8}$		3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{5}{16}$	2	3.25
F-213	5	1.5	1600	CH-1	2 $\frac{3}{8}$		2 $\frac{13}{16}$	1 $\frac{3}{4}$	1 $\frac{11}{16}$	$\frac{3}{4}$	2.05
F-214	5	4	1600	CH-1	2 $\frac{13}{16}$		3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	2.90
F-215	5	6	1600	CH-1	3 $\frac{1}{8}$		3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{5}{16}$	2	3.25
F-216	5	8	1600	FV-1	2	2 $\frac{1}{8}$	2 $\frac{1}{2}$	2 $\frac{5}{8}$	3 $\frac{1}{16}$	2 $\frac{3}{4}$	4.25
F-217	5	13	1600	FV-1	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{13}{16}$	2 $\frac{7}{8}$	3 $\frac{7}{16}$	4	5.60
F-218	6.3	1.35	1600	CH-1	2 $\frac{3}{8}$		2 $\frac{13}{16}$	1 $\frac{3}{4}$	1 $\frac{11}{16}$	$\frac{3}{4}$	2.05
F-219	6.3	3	1600	CH-1	2 $\frac{13}{16}$		3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	2.90
F-220	6.3	5	1600	CH-1	3 $\frac{1}{8}$		3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{5}{16}$	2	3.25
F-221	6.3	7	1600	FV-1	2	2 $\frac{1}{8}$	2 $\frac{1}{2}$	2 $\frac{5}{8}$	3 $\frac{1}{16}$	2 $\frac{3}{4}$	4.25
F-222	6.3	10	1600	FV-1	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{13}{16}$	2 $\frac{7}{8}$	3 $\frac{7}{16}$	4	5.60
F-223	7.5	4	1600	CH-1	3 $\frac{1}{8}$		3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{5}{16}$	2	3.25
F-224	7.5	8	1600	FV-1	2 $\frac{1}{4}$	2 $\frac{1}{4}$	2 $\frac{13}{16}$	2 $\frac{7}{8}$	3 $\frac{7}{16}$	4	5.75
F-225	10	12	1600	FV-1	2 $\frac{1}{2}$	2 $\frac{1}{2}$	3 $\frac{1}{8}$	3 $\frac{1}{2}$	3 $\frac{13}{16}$	6	9.10

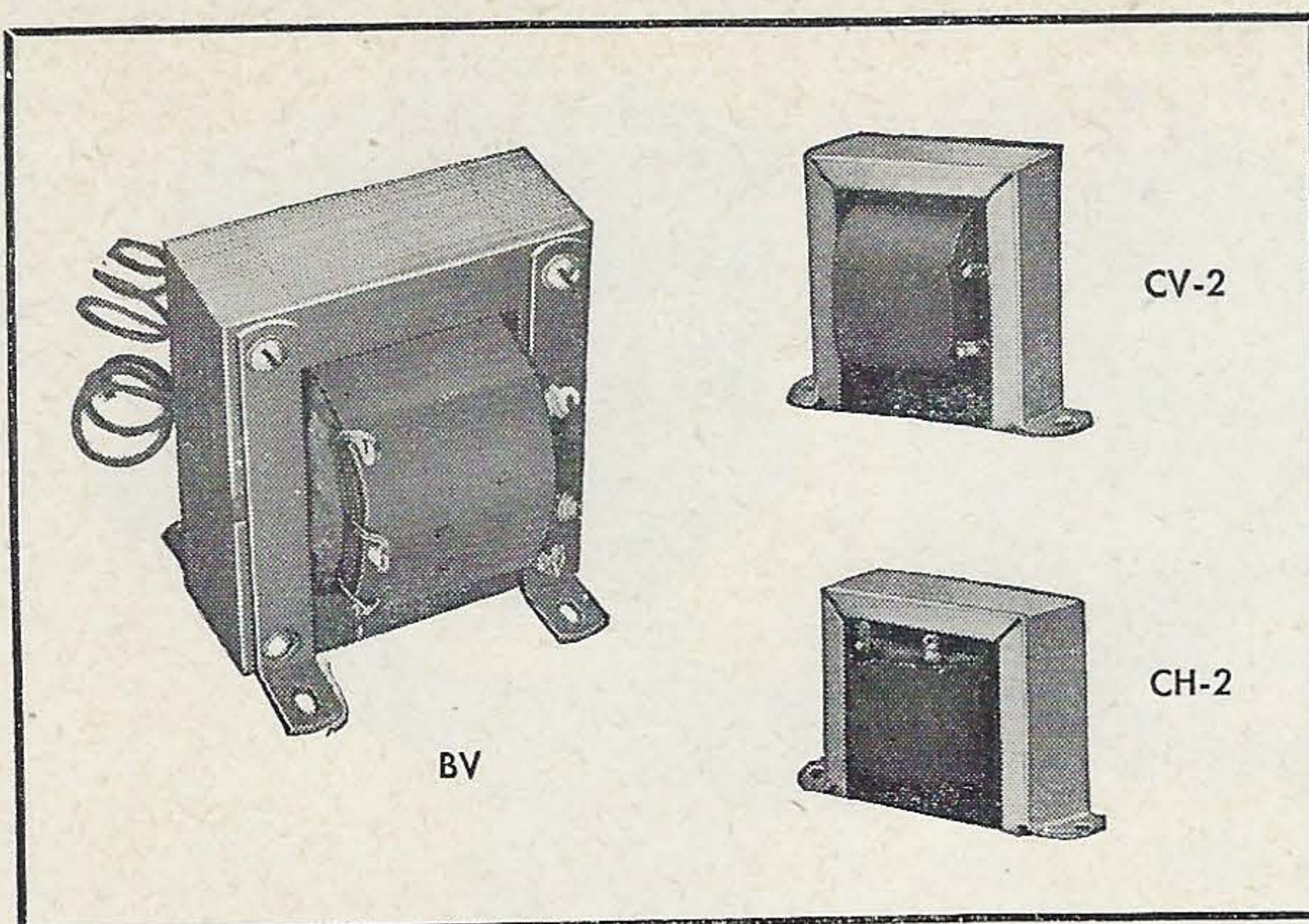
AUTO TRANSFORMERS To be used as a step-down transformer. Equipped with standard receptacle and line cord.

Freed No.	V. A. Rating	230/115 50/60 cy.	Mounting Type	Mounting Centers		Dimensions			Weight	List Price
				W	D	W	D	H		
F-900	100	" " "	PS-2	2 $\frac{1}{4}$	1 $\frac{3}{4}$	2 $\frac{27}{32}$	3	3 $\frac{33}{64}$	4 $\frac{1}{2}$	\$8.40
F-901	200	" " "	PS-2	2 $\frac{1}{2}$	2 $\frac{1}{16}$	3 $\frac{5}{32}$	3 $\frac{3}{8}$	3 $\frac{57}{64}$	6 $\frac{1}{4}$	9.55
F-902	300	" " "	PS-2	3	2 $\frac{7}{16}$	3 $\frac{25}{32}$	3 $\frac{5}{8}$	4 $\frac{11}{64}$	7 $\frac{1}{4}$	12.15
F-903	400	" " "	PS-2	3	2 $\frac{11}{16}$	3 $\frac{25}{32}$	3 $\frac{7}{8}$	4 $\frac{11}{64}$	8.0	15.20
F-904	500	" " "	PS-2	3	3 $\frac{11}{16}$	3 $\frac{25}{32}$	4 $\frac{7}{8}$	4 $\frac{11}{64}$	13 $\frac{1}{2}$	18.25
F-905	750	" " "	PS-2	3 $\frac{1}{2}$	3 $\frac{7}{8}$	4 $\frac{7}{16}$	5 $\frac{1}{4}$	5 $\frac{7}{32}$	20	24.30
F-906	1000	" " "	PS-2	3 $\frac{1}{2}$	5 $\frac{3}{8}$	4 $\frac{7}{16}$	6 $\frac{3}{4}$	5 $\frac{7}{32}$	29	30.75
F-907	1500	" " "	PS-2	3 $\frac{1}{2}$	6 $\frac{3}{8}$	4 $\frac{7}{16}$	7 $\frac{3}{4}$	5 $\frac{7}{32}$	36	45.65

ISOLATION TRANSFORMERS

Electrostatic shield between primary and secondary.
Equipped with standard receptacle and line cord.

Freed No.	V. A. Rating	115/115 50/60 cy.	Mounting Type	Mounting Centers		Dimensions			Weight	List Price
				W	D	W	D	H		
F-920	50	" " "	PS-2	2 $\frac{1}{4}$	1 $\frac{3}{4}$	2 $\frac{27}{32}$	3	3 $\frac{33}{64}$	4 $\frac{1}{2}$	\$9.10
F-921	100	" " "	PS-2	2 $\frac{1}{2}$	2 $\frac{5}{16}$	3 $\frac{5}{32}$	3 $\frac{5}{8}$	3 $\frac{57}{64}$	6 $\frac{1}{4}$	13.00
F-922	300	" " "	PS-2	3 $\frac{1}{2}$	3 $\frac{3}{8}$	4 $\frac{7}{16}$	4 $\frac{3}{4}$	5 $\frac{7}{32}$	18	32.85
F-923	500	" " "	PS-2	3 $\frac{1}{2}$	4 $\frac{7}{8}$	4 $\frac{7}{16}$	6 $\frac{1}{4}$	5 $\frac{7}{32}$	27	40.00



Replacement and Universal

OUTPUT TRANSFORMERS

FREED

TRANSFORMER CO., INC.

REPLACEMENT OUTPUT TRANSFORMERS

For coupling receiver audio output tube to speaker. These transformers are usually mounted on the loudspeaker frame.

Freed No.	Application or Tube Type	Class	Ohms Impedance		Pri. MA	Max. Per Side	Watts	Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.	List Price
			Pri.	Sec.						W	D	H		
F-314	1-25L6, 48	A	1,500 or 2,000	3.2	55	5		CH-2	2"	2 3/8"	1 5/8"	1 7/16"	1/2	\$1.40
F-315	1-43, 45, 71-A, 12A5 1-25A6	A	4,000	3.2	40	5		CH-2	2"	2 3/8"	1 5/8"	1 7/16"	1/2	1.40
F-316	1-2A5, 6A4, 6F6, 41 1-42, 47, 89	A	7,000	3.2	40	5		CH-2	2"	2 3/8"	1 5/8"	1 7/16"	1/2	1.40
F-317	1-3Q5, 3S4, 1Q5, 1C5 1-1S4, 3A4	A	8,000	3.2	10	5		CH-2	2"	2 3/8"	1 5/8"	1 7/16"	1/2	1.45
F-318	1-1D8, 1F5, 1T5, 38	A	14,000 or 16,000	3.2	10	5		CH-2	2"	2 3/8"	1 5/8"	1 7/16"	1/2	1.45
F-319	1-3Q4 1-19PP, 1J6GPP, 1G6G 2-30PP, 49PP	A B	10,000 CT	3.2	15	8		CH-2	2 3/8"	2 1/16"	1 3/4"	1 1/16"	3/4	2.00
F-320	2-45PP-71PP, 43PP 2-25 AG PP	A	8,000 CT	3.2	40	10		CH-2	2 1/16"	3 1/4"	2	2	1 1/4	2.70
F-321	2- 6F6 PP, 42 PP 2- 2A5PP, 6A4, P.P.	A	14,000 CT	3.2	40	8		CH-2	2 3/8"	2 1/16"	1 3/4"	1 1/16"	3/4	2.00

UNIVERSAL OUTPUT TRANSFORMERS

Covering most applications. Correct matching for the various conditions can be obtained by the wide range of plate or line and voice call impedances.

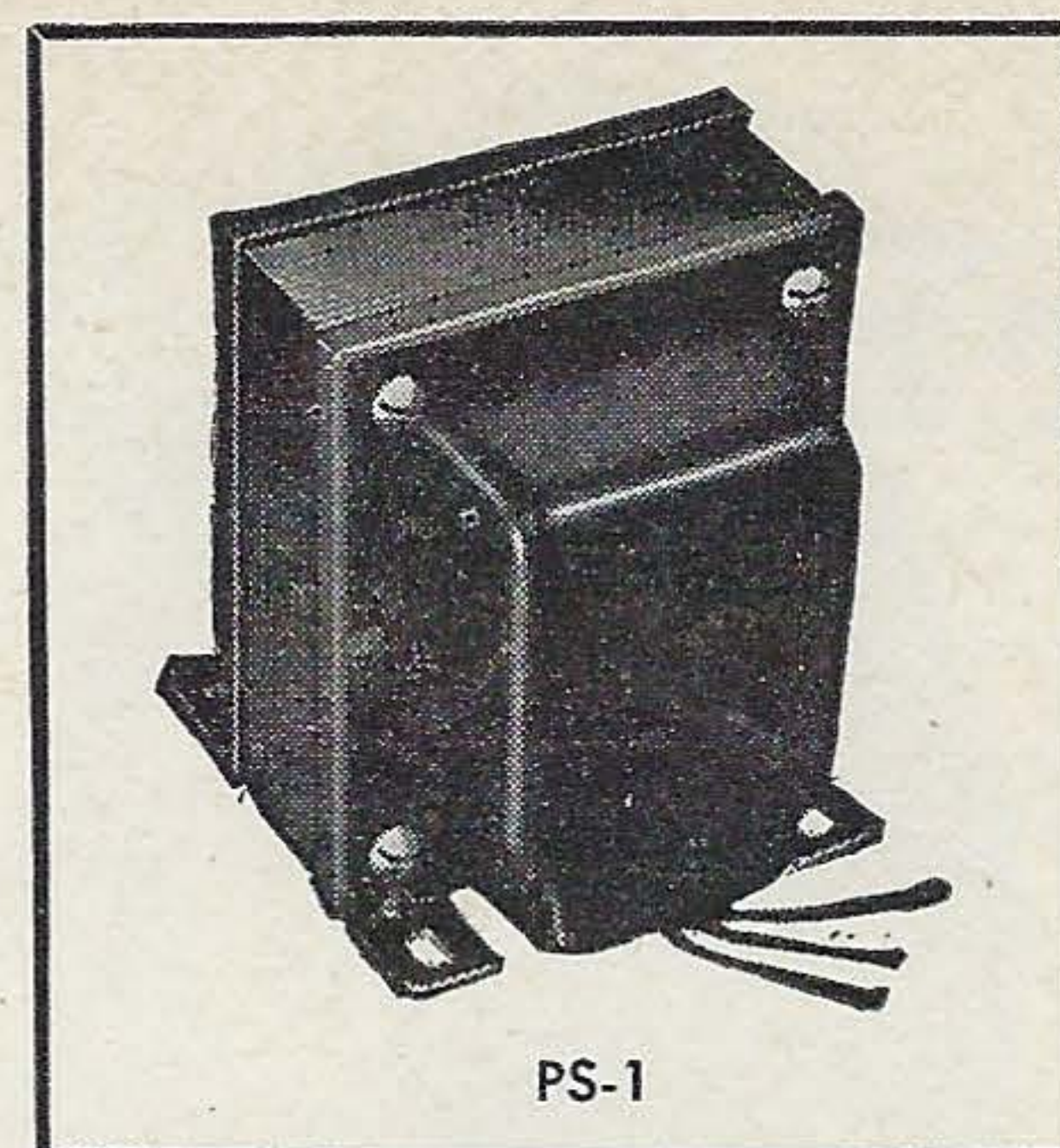
Freed No.	Classification or Application	Ohms Impedance		Pri. MA	Max. Watts	Mtg. Type	Mounting Centers		Dimensions			Wt. Lbs.	List Price
		Pri.	Sec.				W	D	W	D	H		
F-300	Universal single or P.P. tubes to speaker	From 1500 to 20,000	Adjustable .1-29	36	6	CH-2	2 3/8"		2 1/16"	1 3/4"	1 1/16"	3/4	\$2.25
F-301				55	10	CH-2	2 1/16"		3 1/4"	2"	2"	1 1/4	2.90
F-302				80	15	CV-2	2 1/16"		3 5/16"	2 1/4"	2 3/4"	2 1/4	4.25
F-303	Universal single tube to speaker			60	10	CH-2	2 3/8"		2 1/16"	1 7/8"	1 1/16"	1	2.25
F-304	Universal P.P. tubes to speaker	From 3,000 to 10,000	Adjustable .1-29	60	20	CV-2	3 1/8"		3 5/8"	2 1/2"	3 1/8"	2 1/2	4.25
F-305	Universal single tube to line	2,500-4,000 5,000-7,000	500 600	60	12	CV-2	3 1/8"		3 5/8"	2 1/2"	3 1/8"	2 1/4	5.35
F-306	Universal P.P. tubes to line	8,000-10,000 12,000-14,000	500 600	60	12	CV-2	3 1/8"		3 5/8"	2 1/2"	3 1/8"	2 1/4	5.75
F-307	Line to tapped voice coil	500-1,000	Min. .06 to Max. 48	10	CV-2	2 1/16"			3 5/16"	2 1/4"	2 3/4"	1 1/4	4.60
F-308		1,500-2,000		15	CV-2	3 1/8"			3 5/8"	2 1/2"	3 1/8"	2 1/2	5.40
F-309		2,500-3,000		20	BV-2	2 1/4"	2 1/8"		2 1/16"	2 3/4"	3 1/16"	3 1/2	6.00
F-310				30	BV-2	2 1/2"	2 3/16"		3 1/8"	3 3/16"	3 1/16"	4 1/4	7.40
F-311	Line to voice coil	500/250	15-8-4-2		CV-2	2 3/8"			2 7/8"	2"	2 3/8"	1 1/4	3.40
F-312		500/250	50-25-16-8 4		BV-2	2 1/2"	2 1/4"		3 1/8"	3 1/4"	3 1/16"	4 1/4	9.10
F-313	Line to multiple speakers (auto-transformer)	500	250/166 125/100/84	70	BV-2	2 1/2"	2 1/4"	3 1/8"	3 1/4"	3 1/16"		4 1/4	9.10

FREED TRANSFORMER CO., INC.



OUTPUT TRANSFORMERS

H. O. T. Series

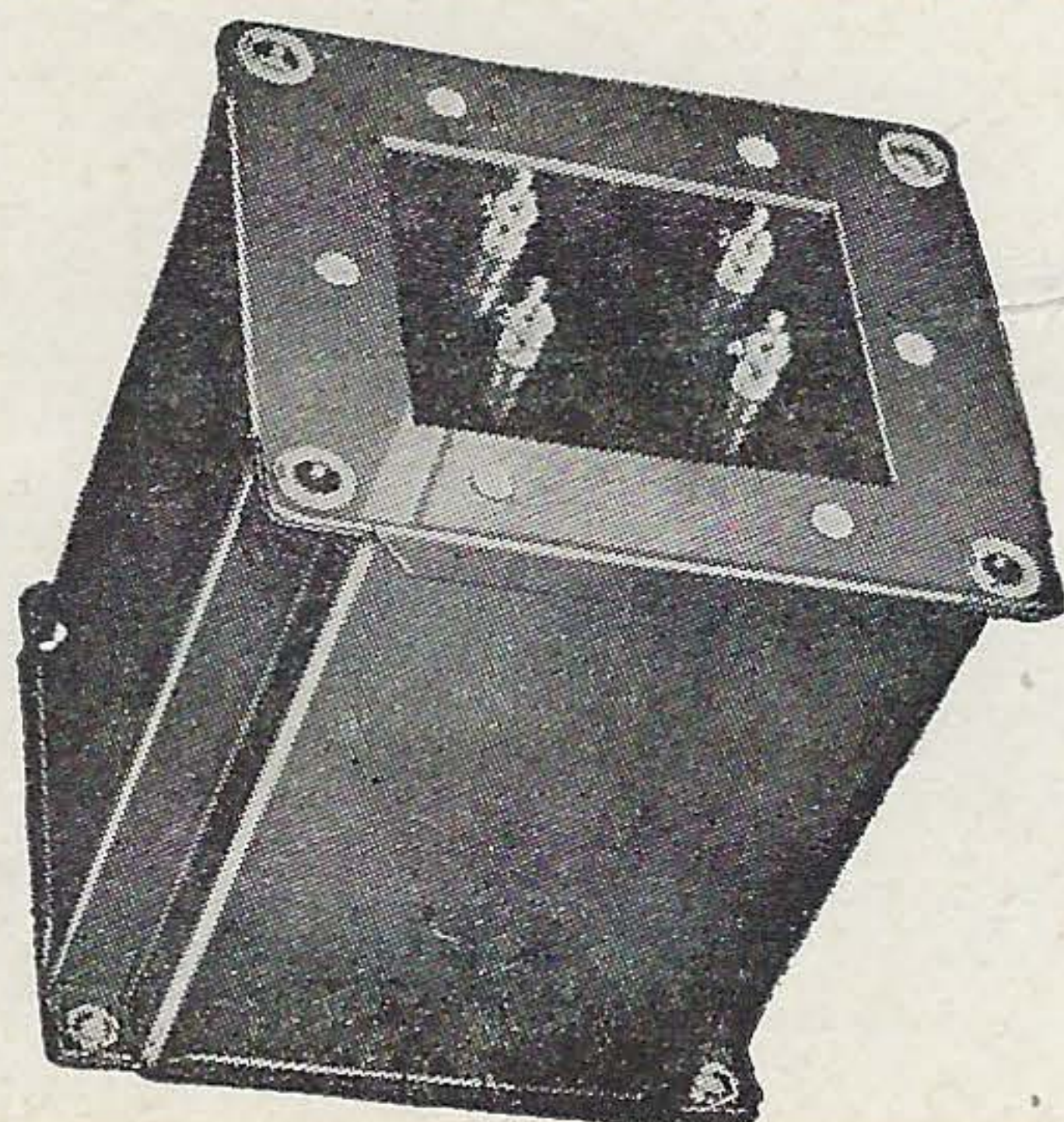


Designed for delivering the maximum audio frequency power from an amplifier to a load (voice coil or line). Good frequency response and low harmonic distortion are the quality factors of the H.O.T. output transformers. Fully enclosed shielded type with leads. All H.O.T. series transformers have multiple secondary impedances.

HEAVY OUTPUT TRANSFORMERS

Freed No.	Application or Tube Type	Class	Ohms Impedance		Pri. Ma. Per Side	Max. Wat.	Inv. Feed- back %	Mtg. Type	Mounting Centers		Dimensions			Wt. Lbs	List Price
			Pri.	Sec.					W	D	W	D	H		
F-110	1-6A3, 2A3, 6Y6, 6L6	A	2,500	2-4-8-500	80	8		PS-1	2	1 1/8	2 5/8	2 1/2	3 1/8	2 1/2	\$5.10
F-111	1-6L6	A	4,000	2-4-8-500	70	10		PS-1	2	1 1/8	2 5/8	2 1/2	3 1/8	2 1/2	6.05
F-112	1-6V6, 1-7C5	A	5,000	2-4-8-500	50	6		PS-1	1 3/4	1 1/2	2 3/8	2 3/8	2 1/8	1 3/4	4.35
F-113	1-6F6, 42, 2A5, 47 6N6, 6B5	A	7,000	2-4-8-500	40	5		PS-1	1 3/4	1 1/2	2 3/8	2 3/8	2 1/8	1 3/4	4.35
F-114	2-6V6-7C5 PP	AB ₁	8,000	2-4-8-250-500	50	15	10	PS-1	2 1/4	2	2 1/8	3 1/4	3 1/2	3 1/2	6.85
F-115	2-2A3-PP 6A3 PP 6B4G PP 45 PP 2-6L6 PP 6Y6 PP	AB A	5,000	2-4-8-250-500	80	20		PS-1	2 1/4	2	2 1/8	3 1/4	3 1/2	3 1/2	6.85
F-116	2-6L6 PP	AB ₁	6,600	2-4-8-250-500	80	30	10	PS-1	2 1/2	2 3/8	3 1/4	3 1/2	3 7/8	5	8.00
F-117	2-6L6 PP	AB ₁	3,800	2-4-8-250-500	80	20	10	PS-1	2 1/2	2 3/8	3 1/4	3 1/2	3 7/8	5	8.00
F-118	2-6L6 PP	AB ₁	9,000	2-4-8-250-500	60	30	10	PS-1	2 1/2	2 3/8	3 1/4	3 1/2	3 7/8	5	8.00
F-119	2-6L6 PP	AB ₂	6,000	4-8-16-250-500	80	40	10	PS-1	2 1/2	2 3/8	3 1/4	3 1/2	3 7/8	5	8.75
F-120	2-6L6 PP	AB ₂	3,800	4-8-16-250-500	110	50	10	PS-1	2 1/2	2 7/8	3 1/4	3 3/4	3 7/8	5 1/2	8.75
F-121	4-6L6 PP Par.	AB ₁	3,300	4-8-16-250-500	160	60	10	PS-1	2 1/2	2 7/8	3 1/4	3 3/4	3 7/8	5 1/2	9.50
F-122	4-6L6 PP Par.	AB ₁	3,300	50-125-200-250 333-500	160	60		PS-1	2 1/2	2 7/8	3 1/4	3 3/4	3 7/8	5 1/2	9.50
F-123	4-6L6 PP Par.	AB ₂	1,900	84-100-125-166 250-500	220	100	10	PS-1	3	3 1/8	3 7/8	5	4 5/8	13 1/2	21.90
F-124	2-6F6-42-2A5 PP 1-6N7, 6A6, 53 PP 2-6N6, 6B5, 2B6, 6AC5	AB ₂ B A	10,000	4-8-15-500	45	20		PS-1	2 1/4	2	2 1/8	3 1/4	3 1/2	3 1/2	6.85
F-125	2-2A3, 6A3, 6B4G 2-48, 25L6	AB A	3,000	4-8-15-500	60	20		PS-1	2 1/4	2	2 1/8	3 1/4	3 1/2	3 1/2	6.05
F-126	4-2A3, 6A3, 6B4G, 45 PP Par.	AB	1,500	4-8-15-500	80	40		PS-1	2 1/4	2	2 1/8	3 1/4	3 1/2	3 1/2	5.85
F-127	2-45, 43, 25 A6 PP 1-6N7, 6A6, 53 PP	A B	8,000	4-8-15-500	36	15		PS-1	2	1 1/8	2 5/8	2 1/2	3 1/8	2 1/2	5.85
F-128	1-12A6-6K6-7B5	A	7,500	4-8-15-500	40	5		PS-1	1 3/4	1 1/8	2 3/8	2 3/8	2 1/8	1 3/4	4.35
F-129	2-12A6-6K6-7B5	A	12,000	4-8-15-500	40	15	10	PS-1	2	1 1/8	2 5/8	2 1/2	3 1/8	2 1/2	5.35
F-130	2-807 PP	AB ₂	4,200	50-125-200-250 333-500	120	75		PS-1	3	3 1/8	3 7/8	5	4 5/8	13 1/2	21.90
F-131	2-50 PP 2-6F6, 42, 2A5 PP	A AB ₂	8,000	4-8-15-500	55	30		PS-1	2 1/4	2	2 1/8	3 1/4	3 1/2	3 1/2	7.30

The 500 ohms secondary is designed in such a way that it can be used with a 600 ohm line.



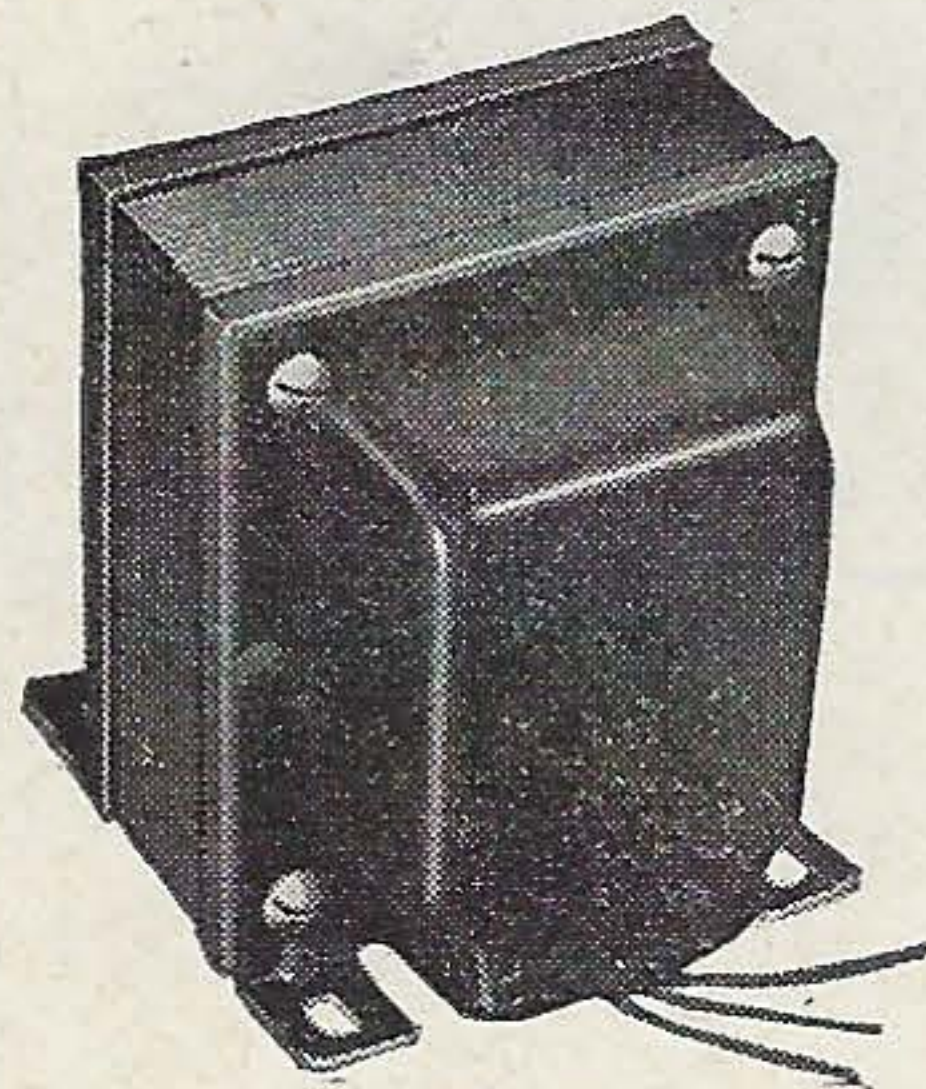
FREED BAND PASS FILTER

This unit is designed for use in communication equipment to transmit speech frequencies only. The highly selective property of the filter makes possible the increase of power in the frequency band necessary for special communication work and eliminates undesirable frequency components in the high and low end of the audio spectrum.

THE FILTER HAS THE FOLLOWING CHARACTERISTICS:

10,000 ohms or 8000 ohms impedance	1.5 DB Insertion Loss
Low frequency cut-off at 300 cps	40 DB attenuation at 100 cps
High frequency cut-off at 3000 cps	Working Level — 0 DB
2.5 DB attenuation at the cut-off frequencies	Maximum Level — ±10 DB.
40 DB attenuation at 50% of the high frequency cut-off.	

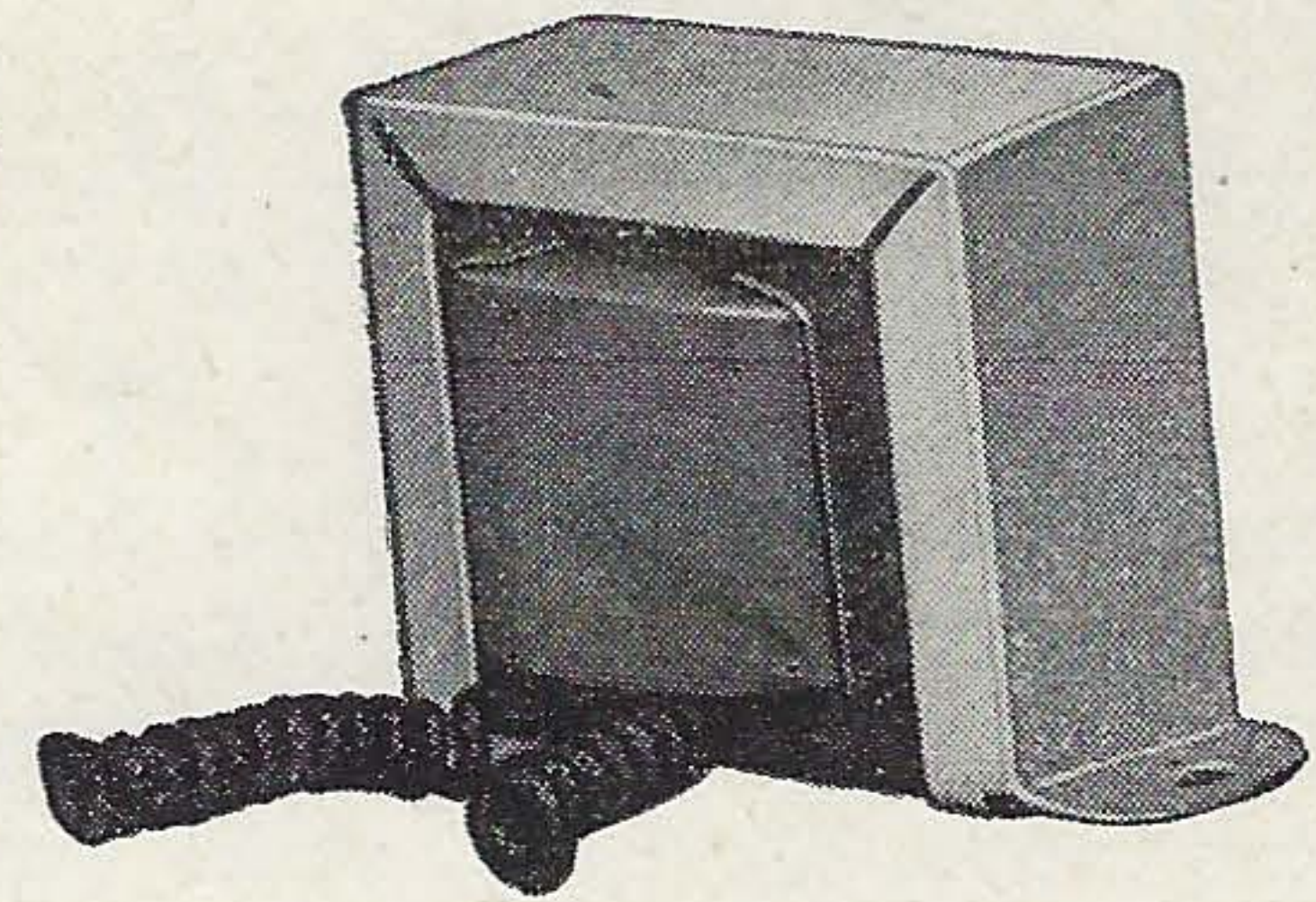
FREED TRANSFORMER CO., INC.



PS- 1

AUDIO TRANSFORMERS

Receiver and Amplifier



CH-1

RECEIVER AUDIO TRANSFORMERS

Designed for use in receiver audio circuits where a reasonably good frequency response is required. To be used for Class A applications, i.e., where no great current is drawn.

Freed No.	Classification	Application	Ohms Impedance		Turns Ratio	Pri MA Per Side	Mtg. Type	Mtg. Centers W	Dimensions			Wgt. Lbs.	List Price
			Pr.	Sec.					W	D	H		
F-550	Input	DB mike to grid	200/50	100,000	1:22.4		CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	\$3.15
F-551	Input	SB mike to grid	100	100,000	1:31.6	100	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.15
F-552	Input	Dyn. mike line or mixer to single or P.P. grid	200/50	100,000 CT	1:22.4		CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.40
F-553	Input	Line to single or P.P. class A grids	125/500	100,000 CT	1:14.1		CH-1	3 $\frac{1}{8}$	3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{1}{8}$	1 $\frac{3}{4}$	4.10
F-554	Input	Plate and single button mike to grid	10,000 100	100,000 100,000	1:3.16 1:31.6		CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.15
F-555	Input	Voice coil to grid	4/8	100,000	1:112		CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2 $\frac{1}{4}$	2	1 $\frac{1}{2}$	3.65
F-556	Matching	DB mike to line	200/50	500/125			CH-1	3 $\frac{1}{8}$	3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{1}{8}$	1 $\frac{3}{4}$	4.50
F-557	Matching	High impedance mike to line or mixer	100,000	200/50	1:22.4		CH-1	3 $\frac{1}{8}$	3 $\frac{11}{16}$	2 $\frac{1}{4}$	2 $\frac{1}{8}$	1 $\frac{3}{4}$	4.50
F-558	Interstage	Single plate to single grid	10,000	90,000	1:3	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	2.60
F-559	Interstage	Single plate to P.P. grids	10,000	90,000 CT	1:3	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	2.70
F-560	Interstage	Single High Imp. plate to single grid	50,000	50,000	1:1	2	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	4.25
F-561	Interstage	P.P. plates to P.P. grids	20,000 CT	20,000 CT	1:1	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	4.25
F-562	Output	Single plate to line or mixer	10,000	200/50	7.1:1	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.05
F-563	Output	Single plate to line	10,000	500/125	4.8:1	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.05
F-564	Output	P.P. plates to line or mixer	20,000	200/50	10:1	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.05
F-565	Output	P.P. plates to line	20,000	500/125	6.32:1	8	CH-1	2 $\frac{13}{16}$	3 $\frac{1}{4}$	2	2	1 $\frac{1}{4}$	3.05

AMPLIFIER AUDIO TRANSFORMERS

Designed for amplifier and transmitter audio circuits. To be used for Class "A" applications.

Fully enclosed shielded type construction, conservative design and good frequency response are the quality features of the amplifier audio transformers.

F-500	Input	DB mike to grid	200/50	100,000	1:22.4		PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	\$3.75
F-501	Input	SB mike to grid	100	100,000	1:31.6	100	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.75
F-502	Input	Dyn. mike line or mixer to single or P.P. grids	200/50	100,000 CT	1:22.4		PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	4.00
F-503	Input	Line to single or P.P. class A grids	150/600	100,000 CT	1:12.9		PS-I	1 $\frac{3}{4}$	1 $\frac{1}{2}$	2 $\frac{3}{16}$	2 $\frac{3}{8}$	2 $\frac{23}{32}$	2 $\frac{1}{8}$	4.75
F-504	Input	Plate and single button mike to grid	10,000 100	100,000 100,000	1:3.16 1:31.6		PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.75
F-505	Input	Voice coil to grid	4/8	100,000	1:112		PS-I	1 $\frac{1}{2}$	1 $\frac{11}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{2}$	2 $\frac{11}{32}$	1 $\frac{3}{4}$	4.25
F-506	Matching	DB mike to line	200/50	500/125			PS-I	1 $\frac{3}{4}$	1 $\frac{1}{2}$	2 $\frac{3}{16}$	2 $\frac{3}{8}$	2 $\frac{23}{32}$	2 $\frac{1}{8}$	5.10
F-507	Matching	High Impedance mike to line or mixer	100,000	200/50	1:22.4		PS-I	1 $\frac{3}{4}$	1 $\frac{1}{2}$	2 $\frac{3}{16}$	2 $\frac{3}{8}$	2 $\frac{23}{32}$	2 $\frac{1}{8}$	5.10
F-508	Interstage	Single plate to single grid	10,000	90,000	1:3	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.35
F-509	Interstage*	Single plate to PP grid	10,000	90,000	1:3	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.45
F-510	Interstage	Single High Imp. plate to single grid	50,000	50,000	1:1	.2	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	4.80
F-511	Interstage*	PP plate to PP grids	20,000 CT	20,000 CT	1:1	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	4.80
F-512	Output	Single plate to line or mixer	10,000	200/50	7.1:1	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.65
F-513	Output	Single plate to line	10,000	500/125	4.8:1	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.65
F-514	Output	PP plate to line or mixer	20,000 CT	200/50	10:1	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.65
F-515	Output	P.P. plates to line	20,000 CT	500/125	6.32:1	8	PS-I	1 $\frac{1}{2}$	1 $\frac{7}{16}$	1 $\frac{7}{8}$	2 $\frac{1}{4}$	2 $\frac{11}{32}$	1 $\frac{3}{8}$	3.65

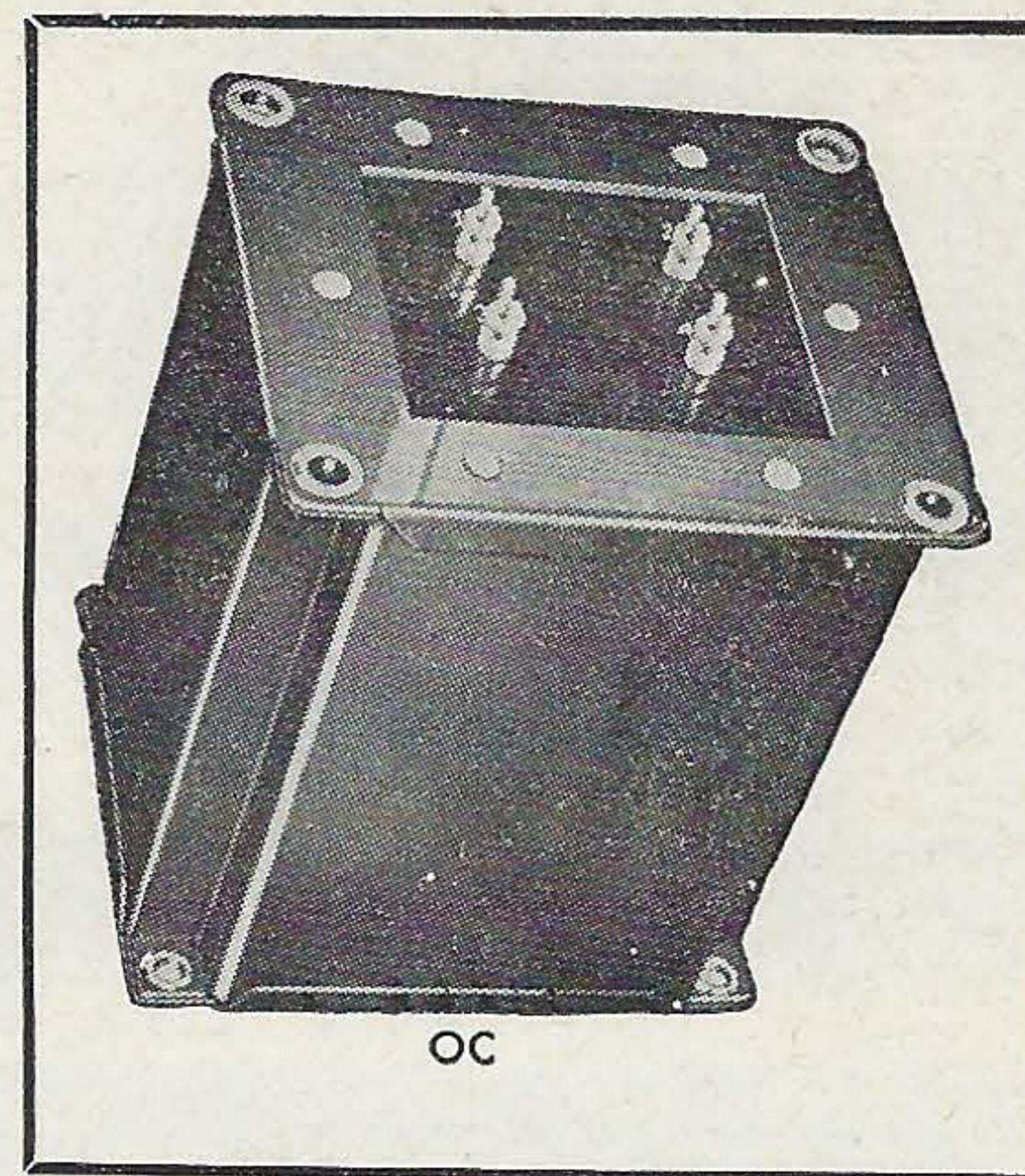
*Has Split Secondary Winding



AUDIO TRANSFORMERS

C Series

FREED TRANSFORMER CO., INC.

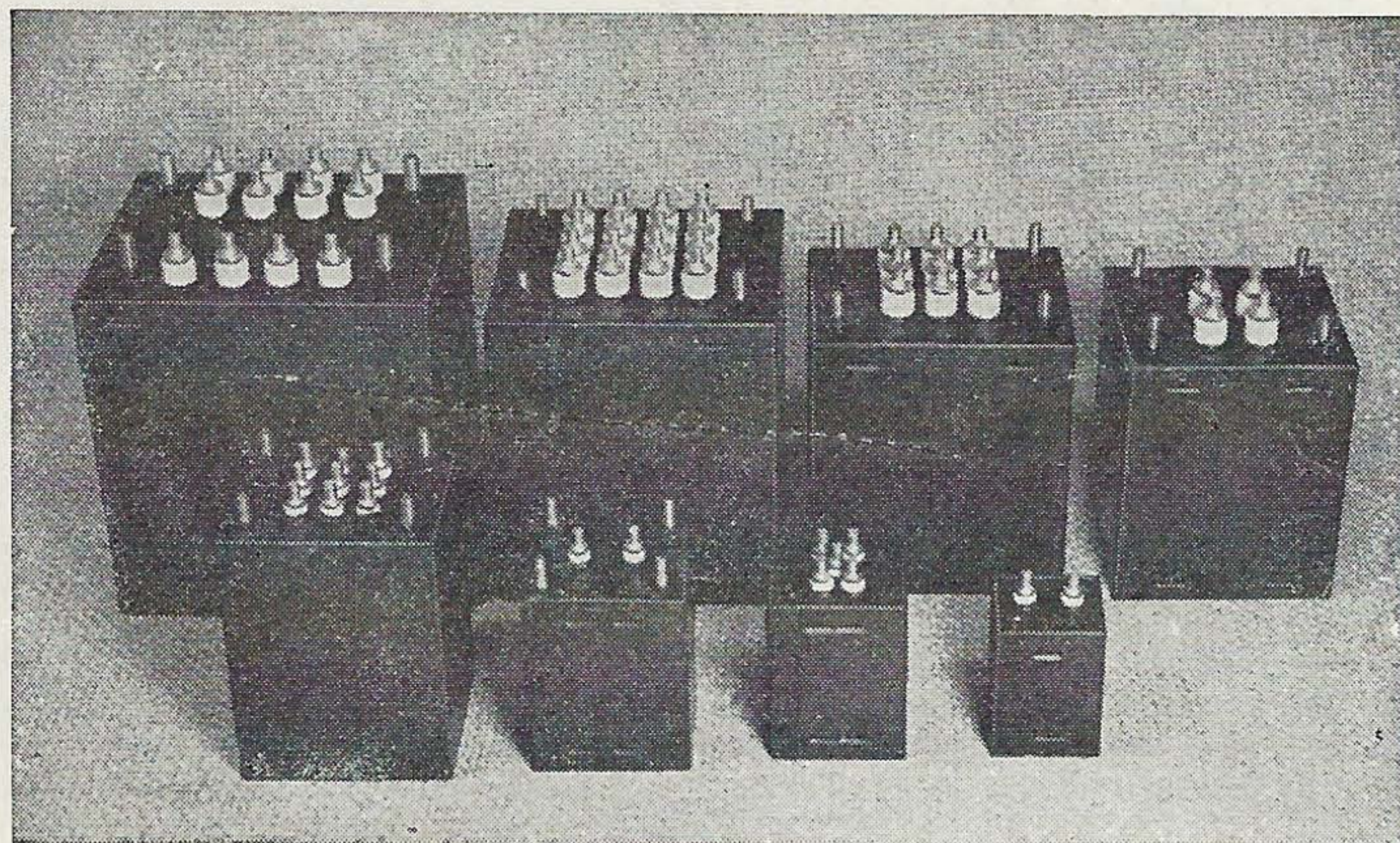


A quality line of transformers used in Public Address amplifiers and transmitters. Uniform case design, universal mounting, conservative ratings, vacuum impregnation of coils and moisture proof sealing of all these transformers is one of the outstand-

ing features of the C Series Audio Transformers. Low level input and output transformers have a balanced hum bucking coil construction. The frequency response of all these units is flat within ± 2 db from 60 to 10,000 cps.

Freed No.	Classification	Application	Ohms Impedance		Turns Ratio	Pri MA Per Side	Mtg. Type	Mtg. Centers		Dimensions			Wgt. Lbs.	List Price
			Pr.	Sec.				W	D	W	D	H		
F-150	Input	Microphone, line or mixer to grid	500*/333 250/200* 125/50	60,000 or 15,000	1:11	*	OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	\$11.65
F-151	Input	Microphone, line or mixer to P.P. grids	500*/333 250/200* 125/50	120,000 CT	1:22		OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	11.65
F-152	Input	Dynamic mike to grid	60/38 30/22 15/10 5.5/2.5	60,000 or 15,000	1:31.6		OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	11.65
F-153	Input	Microphone, line or mixer to grid; magnetic shielding	500*/333 250/200* 125/50	50,000	1:10		OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	14.60
F-154	Matching	Microphone, mixer or line to low impedance line	500*/333 250/200* 125/50	500*/333 250/200* 125/50	1:1		OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	11.65
F-155	Matching	Dynamic mike or mixer to low impedance line	60/38 30/22 15/10 5.5/2.5	500*/333 250/200* 125/50	1:2.9		OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	11.65
F-156	Output	Single plate to line or mixer	10,000 to 15,000	500*/333 250/200* 125/50		8	OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	11.65
F-157	Output	Single plate to line or mixer; magnetic shielding	10,000 or 15,000	500*/333 250/200* 125/50			OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	14.60
F-158	Output	P.P. plates to line or mixer	20,000 CT	500*/333 250/200* 125/50		8	OC	2 1/8	1 3/4	2 5/8	2 1/4	3 1/8	1 3/4	11.65

*Indicates balanced C.T.



HERMETICALLY SEALED UNITS AVAILABLE

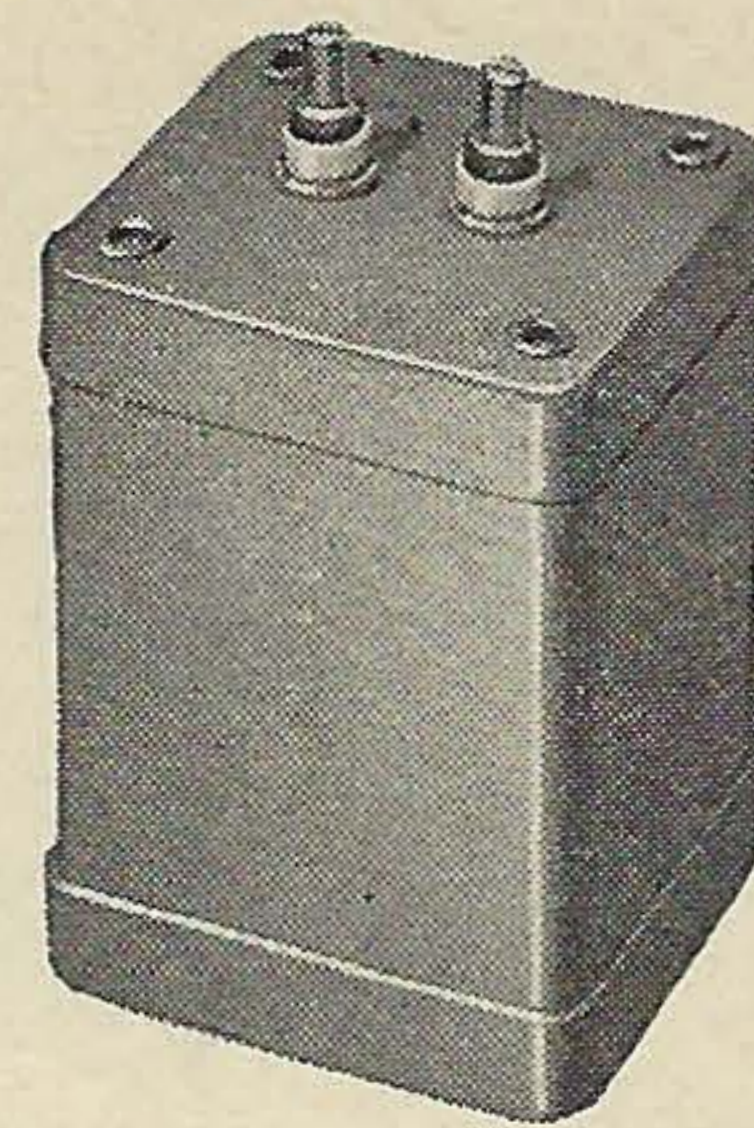
Made to customer's specifications where temperature and humidity are factors. For performance under most adverse conditions.

TELEVISION TRANSFORMERS

and

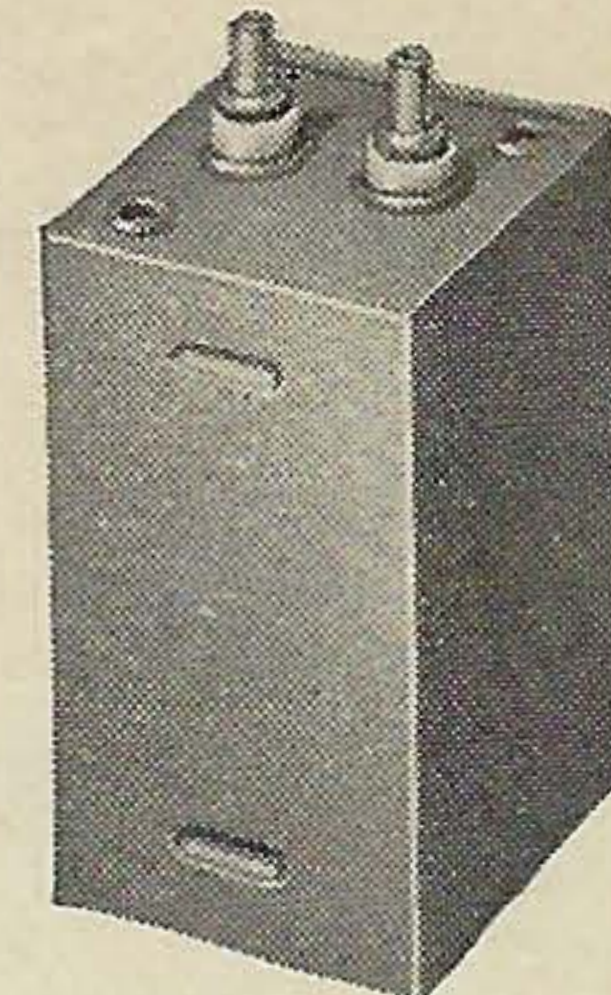
HIGH Q TOROID INDUCTORS

FREED TRANSFORMER CO., INC.



DC-1

Width 2 1/8"; Depth 1 1/8";
Height 2 1/2"; Mtg. 1 1/2" x
1 1/4"; Screws 6/32; Weight
14 oz.

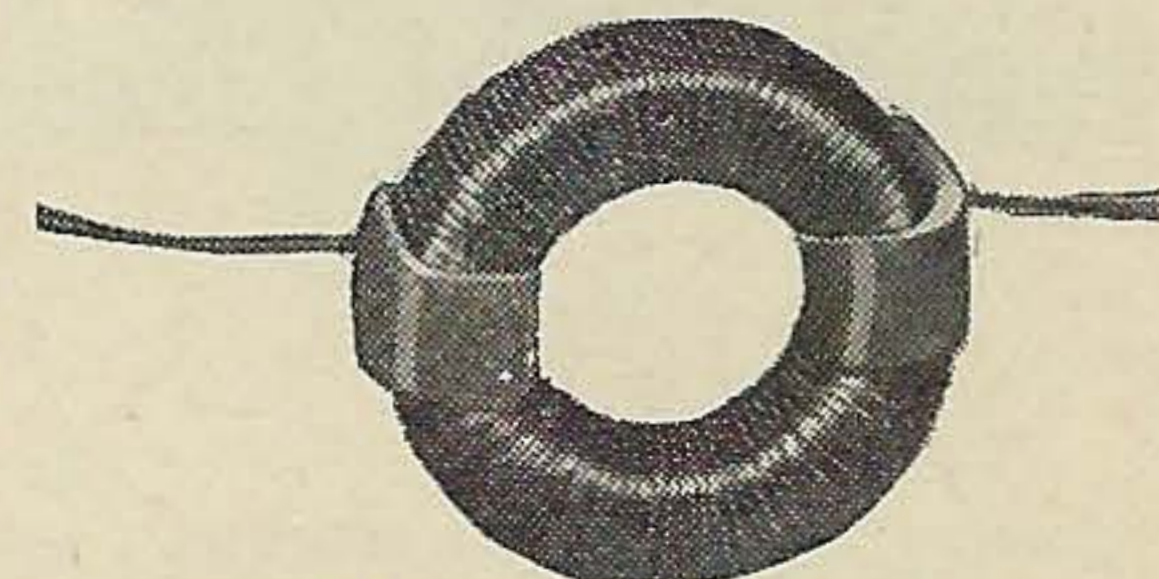


NS-1

Width 1 1/2"; Depth 1 1/2";
Height 2"; Mtg. 1 3/8" (bet.
centers, across corners);
Screws 6/32; Wt. 8 oz.

DC-2

Width 2 5/8"; Depth
2 1/4"; Height 3"; Mtg.
2 x 1 3/4"; Screws 6/32;
Weight 16 oz.



Unmounted Core

TELEVISION TRANSFORMERS

Used in television receivers, oscilloscopes, test equipment and high voltage, low current power supplies.

Freed No.	HV AC Volts	DC MA.	Rect V	A	Fil V	A	Mtg. Type	Mtg. Center W	D	W	Dimensions D	H	Ship Wt.	List Price
F-950	1700	4	2.5	2			PS-1	2	1 1/8	2 3/8	3	3 3/4	3	\$10.25
F-951	2000	2	2.5	1.75	6.3	.9	PS-1	2 1/4	2 1/4	2 3/8	3 3/8	3 3/4	4 1/2	12.10
F-952	2500	2	2.5	1.75	6.3	.9	PS-1	2 1/4	2 1/4	2 3/8	3 3/8	3 3/4	4 1/2	13.35

TELEVISION TRANSFORMERS

Used for a plate supply in television receivers (12 and 15 inch tube).

Freed No.	HV AC Volts	CT DC MA.	Rect V	A	Fil V	A	Fil V	A	Mtg. Type	Mtg. Center W	D	W	Dimensions D	H	Ship Wt.	List Price
F-960	775	225	5	3	6.3	1.75	6.3	10A	PS-1	3	3 1/8	3 3/8	4 7/8	4 1/4	11 1/2	\$14.80
F-961	800	300	5	3	5	6	12.6	10A (CT)	PS-1	3 1/2	4	4 7/8	5 3/8	5 3/4	15 1/2	30.75

TELEVISION TRANSFORMERS

Freed No.	Description	Mtg. Type	Mtg. Center W	D	W	Dimensions D	H	Ship Wt.	List Price
F-970	Horizontal Blocking Oscillator Transformer.....	CH-1	2		2 3/8	1 5/8	1 7/8	1/2	\$4.50
F-971	Vertical Blocking Oscillator Transformer.....	CH-1	2		2 3/8	1 5/8	1 7/8	1/2	4.25
F-972	Vertical Output Tr. for Magnetic Deflection CRT	FV-1	1 9/16	2	2 1/2	2 1/8	3 1/8	2 1/2	8.50
F-973	Horizontal Output Tr. for Electrostatic Deflection CRT	CH-1	1 1/2		1 3/8	1	1 1/8	1/4	4.50

HIGH Q TOROID INDUCTORS

CATALOG NUMBER	INDUCTANCE VALUE	TYPE OF CASE	CATALOG NUMBER	INDUCTANCE VALUE	TYPE OF CASE	CATALOG NUMBER	INDUCTANCE VALUE	TYPE OF CASE
F-800T	5 MHY	DC-1	F-852T	15 MHY	NS-1	F-1811T	150 MHY	DC-1
F-801T	10 MHY	DC-1	F-853T	30 MHY	NS-1	F-1812T	200 MHY	DC-1
F-802T	15 MHY	DC-1	F-854T	50 MHY	NS-1	F-1813T	300 MHY	DC-1
F-803T	30 MHY	DC-1	F-855T	75 MHY	NS-1	F-1814T	400 MHY	DC-1
F-804T	50 MHY	DC-1	F-856T	100 MHY	NS-1	F-1815T	500 MHY	DC-1
F-805T	75 MHY	DC-1	F-857T	150 MHY	DC-1	F-1850T	.5 MHY	DC-1
F-806T	100 MHY	DC-1	F-858T	200 MHY	DC-1	F-1851T	1 MHY	DC-1
F-807T	150 MHY	DC-1	F-859T	300 MHY	DC-1	F-1852T	2 MHY	DC-1
F-808T	200 MHY	DC-1	F-860T	400 MHY	DC-1	F-1853T	3 MHY	DC-1
F-809T	500 MHY	DC-1	F-861T	500 MHY	DC-1	F-1854T	4 MHY	DC-1
F-810T	750 MHY	DC-1	F-862T	600 MHY	DC-1	F-1855T	5 MHY	DC-1
F-811T	1000 MHY	DC-1	F-863T	700 MHY	DC-1	F-1856T	10 MHY	DC-2
F-812T	1250 MHY	DC-1	F-864T	800 MHY	DC-1	F-1857T	15 MHY	DC-2
F-813T	1500 MHY	DC-1	F-865T	900 MHY	DC-1	F-1858T	20 MHY	DC-2
F-814T	1750 MHY	DC-1	F-866T	1000 MHY	DC-1	F-1859T	30 MHY	DC-2
F-815T	2000 MHY	DC-1	F-1800T	1 MHY	DC-1	F-1860T	40 MHY	DC-2
F-816T	2250 MHY	DC-1	F-1801T	2 MHY	DC-1	F-1861T	50 MHY	DC-2
F-817T	2500 MHY	DC-1	F-1802T	3 MHY	DC-1	F-1862T	75 MHY	DC-2
F-818T	2750 MHY	DC-1	F-1803T	4 MHY	DC-1	F-1863T	100 MHY	DC-2
F-819T	3000 MHY	DC-1	F-1804T	5 MHY	DC-1	F-1900T	100 HY	DC-2
F-820T	3500 MHY	DC-1	F-1805T	10 MHY	DC-1	F-1901T	75 HY	DC-2
F-821T	4000 MHY	DC-1	F-1806T	15 MHY	DC-1	F-1902T	50 HY	DC-2
F-822T	4500 MHY	DC-1	F-1807T	30 MHY	DC-1	F-1903T	25 HY	DC-2
F-823T	5000 MHY	DC-1	F-1808T	50 MHY	DC-1	F-1904T	10 HY	DC-2
F-850T	5 MHY	NS-1	F-1809T	75 MHY	DC-1	F-1905T	5 HY	DC-2
F-851T	10 MHY	NS-1	F-1810T	100 MHY	DC-1	F-1906T	1 HY	DC-2

STANDARD TOLERANCE $\pm 2\%$

IN TOLERANCES OF $\pm 1\%$, ADD 7% TO COST

All inductors listed above can be supplied in hermetically sealed cans, commercial type construction or open units.

PRICES ON REQUEST