

GRAMER

Haldorson

TRANSFORMERS

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CATALOG NUMBER G-25

DISTRIBUTED BY

PACIFIC ELECTRONICS SALES CO.

1209 First Avenue
Seattle 1, Washington

Mm. 5390

Index of Part Numbers in Numerical Sequence

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Item Number	Page No.	List Price	Item Number	Page No.	List Price	Item Number	Page No.	List Price	Item Number	Page No.	List Price	Item Number	Page No.	List Price	Item Number	Page No.	List Price
N-202	15	\$62.50	RF 800	4	\$2.20	L 2400	8	\$6.50	J 4303	14	\$17.50	F 5511	13	\$2.90	P 9206	10	\$9.45
N-303	15	35.75	*RF 801	4	1.50	L 2401	8	9.90	J 4304	14	22.50	F 5512	13	4.50	P 9207	10	9.45
FB 400	3	9.50	*RF 802	4	1.50	A 2500	9	3.85	J 4305	14	45.00	F 5513	13	7.20	P 9208	10	10.45
FB 401	3	10.00	*RF 803	4	1.50	A 2501	9	2.65	J 4400	14	21.95	F 5514	13	6.15	P 9209	10	10.45
FB 402	3	10.50	*RF 804	4	1.50	A 2502	9	3.50	J 4401	14	27.90	F 5515	13	8.75	P 9210	11	6.50
FB 403	3	10.50	Z 1000	7	3.00	A 2504	9	3.40	J 4402	14	34.50	F 5516	13	7.50	P 9211	11	6.55
FB 404	3	6.50	Z 1001	7	3.25	A 2600	9	7.95	J 4403	14	52.50	F 5517	13	4.50	P 9212	11	7.50
FB 405	3	7.65	Z 1002	7	3.40	A 2601	9	4.10	K 4600	14	12.00	F 5518	13	6.00	P 9213	11	7.50
FB 406	3	7.85	Z 1003	7	3.75	A 2602	9	3.90	K 4601	14	18.50	F 5519	13	9.00	P 9214	11	8.00
FB 407	3	5.60	Z 1004	7	3.90	A 2603	9	3.05	K 4602	14	19.95	F 5520	13	9.25	P 9215	11	8.35
FB 408	3	5.95	Z 1005	7	4.10	A 2604	9	3.80	K 4603	14	32.50	F 5521	13	7.65	P 9300	10	7.25
FB 409	3	9.95	Z 1006	7	3.35	A 2700	9	5.00	*K 4610	14	30.00	F 5522	13	9.00	P 9301	10	7.25
FB 410	3	9.95	Z 1007	7	4.35	A 2701	9	5.10	C 5000	12	3.40	F 5523	13	10.10	P 9302	10	7.60
FB 411	3	10.00	Z 1009	7	4.35	A 2710	9	5.25	C 5001	12	2.20	F 5524	13	28.10	P 9303	10	7.60
FB 412	3	10.50	Z 1010	7	5.00	A 2711	9	6.90	C 5002	12	2.30	F 5525	13	27.50	P 9304	10	8.60
FB 413	3	9.95	Z 1011	7	4.95	T 3000	15	11.90	C 5003	12	3.50	F 5526	13	6.95	P 9305	10	8.60
FB 414	3	10.50	Z 1012	7	8.50	T 3001	15	14.90	C 5004	12	2.60	F 5527	13	4.75	P 9306	10	8.60
FB 415	3	10.50	Z 1013	7	5.50	T 3002	15	18.50	C 5005	12	3.60	F 5528	13	10.90	P 9307	10	8.60
FB 416	3	10.50	Z 1100	6	2.90	T 3003	15	18.90	C 5006	12	2.15	F 5529	13	4.00	P 9310	10	9.60
FB 417	3	8.90	Z 1101	6	1.60	T 3004	15	21.50	C 5007	12	1.85	F 5530	13	4.50	P 9311	10	9.60
FB 418	3	9.25	Z 1102	6	1.90	T 3005	15	22.75	C 5008	12	2.20	F 5900	13	7.75	P 9312	10	10.95
FB 419	3	11.50	Z 1103	6	2.20	T 3100	15	24.90	C 5009	12	2.00	F 5901	13	7.25	P 9313	10	10.95
FB 420	3	9.00	Z 1104	6	3.45	T 3101	15	41.50	C 5010	12	2.20	F 5902	13	11.25	P 9314	10	10.95
FB 421	3	6.50	Z 1105	6	2.60	T 3102	15	39.75	C 5011	12	2.65	F 5903	13	12.55	P 9315	10	10.95
FB 422	3	6.75	Z 1106	6	3.75	T 3103	15	45.00	C 5012	12	2.30	F 5904	13	10.00	P 9316	10	12.85
FB 423	3	8.00	Z 1107	6	2.00	T 3104	15	45.80	C 5013	12	3.00	F 5905	13	8.00	P 9317	10	12.85
FB 424	3	8.15	Z 1108	6	8.00	S 3500	8	2.35	C 5014	12	3.10	D 6000	9	3.15	P 9318	10	17.50
FB 425	3	8.25	Z 1109	6	3.50	S 3501	8	3.20	C 5015	12	3.10	D 6001	9	3.25	P9321	10	19.50
FB 426	3	9.00	Z 1110	6	2.00	S 3502	8	4.25	C 5016	12	3.30	D 6002	9	7.45	P 9400	10	15.25
FB 427	3	10.50	Z 1111	6	2.65	S 3503	8	4.25	C 5017	12	5.40	D 6003	9	3.75	P 9402	10	16.00
FB 428	3	10.50	Z 1112	6	3.40	S 3504	8	5.25	C 5018	12	3.75	D 6004	9	5.10	P 9403	10	16.00
FB 429	3	10.50	Z 1113	6	1.95	S 3505	8	5.50	C 5019	12	3.40	D 6005	9	4.90	P 9404	10	14.95
FB 430	3	9.50	Z 1114	6	7.50	S 3506	8	5.45	C 5020	12	3.40	D 6006	9	5.10	P 9405	10	14.95
FB 431	3	10.50	Z 1115	6	2.65	S 3507	8	4.50	C 5021	12	4.45	D 6100	9	3.50	P 9406	10	17.95
FB 432	3	10.00	Z 1116	6	2.75	S 3508	8	6.30	C 5022	12	5.50	D 6101	9	7.25	P 9600	10	18.00
FB 433	3	10.50	Z 1117	6	1.90	V 3800	14	5.25	C 5023	12	5.25	D 6102	9	11.25	P 9701	5	11.10
FB 434	3	13.25	Z 1118	6	2.15	V 3801	14	6.00	C 5024	12	3.10	D 6103	9	8.90	P 9702	5	18.00
FB 435	3	13.25	Z 1119	6	2.45	V 3802	14	6.50	C 5025	12	6.15	D 6200	9	17.10	P 9703	5	20.40
FB 436	3	13.25	Z 1400	6	15.00	V 3803	14	7.75	C 5026	12	3.20	D 6201	9	4.65	P 9705	5	25.50
FB 437	3	10.50	Z 1401	6	10.75	V 3804	14	11.95	C 5027	12	4.95	M 6300	15	3.65	P 9707	5	19.50
FB 438	3	10.50	Z 1402	6	3.90	V 3805	14	7.00	C 5028	12	6.15	M 6301	15	5.10	P 9708	5	20.00
FB 439	3	10.75	Z 1403	6	11.50	V 3806	14	7.50	C 5029	12	6.30	M 6302	15	8.35	P 9709	5	27.50
FB 440	3	14.00	Z 1404	6	3.50	V 3807	14	8.50	C 5030	12	3.85	M 6303	15	23.75	P 9711	5	25.00
FB 441	3	10.50	Z 1405	6	9.50	V 3808	14	9.00	C 5031	12	7.25	M 6500	15	13.75	P 9713	5	24.90
*FB 442	3	12.00	Z 1406	6	3.50	V 3815	14	16.85	C 5032	12	8.25	M 6501	15	18.10	P 9715	5	27.50
*FB 443	3	10.00	Z 1407	6	7.75	*V3900	14	5.25	C 5033	12	8.25	M 6502	15	17.90	P 9717	5	21.45
*FB 444	3	6.75	Z 1408	6	3.75	*V3901	14	9.90	C 5034	12	12.50	M 6503	15	22.50	P 9719	5	25.00
*FB 445	3	10.00	Z 1409	6	4.95	*V3902	14	6.00	C 5035	12	9.10	P 9721	5	30.90	P 9723	5	27.50
*FB 446	3	10.00	Z 1410	6	2.50	*V3903	14	6.30	C 5036	12	10.45	P 9725	5	26.60	P 9727	5	27.25
*FB 447	3	10.00	Z 1411	6	2.70	*V3904	14	8.75	C 5037	12	3.85	P 9728	5	41.90	P 9730	5	23.50
*FB 448	3	9.25	Z 1412	6	3.40	H 4000	7	27.50	C 5038	12	13.50	B 6600	4	3.00	P 9731	5	23.50
*FB 449	3	10.00	Z 1800	4	6.60	H 4001	7	22.50	C 5039	12	19.25	B 6601	4	3.75	P 9733	5	19.50
*FB 450	3	10.00	Z 1801	4	6.05	H 4002	7	22.50	C 5040	12	2.35	B 6700	4	2.70	P 9735	5	27.00
*FB 451	3	12.25	Z 1802	4	5.00	H 4003	7	22.50	C 5041	12	4.35	B 6701	4	4.20	P 9737	5	28.50
*FB 452	3	10.50	Z 1803	4	4.25	H 4004	7	27.50	C 5400	12	6.35	B 6702	4	2.70	P 9739	5	28.00
*FB 453	3	10.50	Z 1804	4	4.25	H 4100	7	19.75	C 5401	12	7.10	*B 6703	4	3.45	P 9901	11	8.75
*FB 454	3	10.50	Z 1805	4	6.75	H 4101	7	19.75	C 5402	12	8.00	*B 6704	4	2.70	P 9903	11	10.50
*FB 455	3	9.75	Z 1806	4	5.50	H 4102	7	19.75	C 5403	12	10.45	*B 6705	4	3.00	P 9905	11	10.75
*FB 456	3	9.50	*Z 1807	4	5.00	H 4103	7	22.50	C 5404	12	13.50	P 9100	11	3.15	P 9907	11	13.00
*FB 457	3	9.25	G 2000	8	3.20	*H4111	Back Cover	41.25	C 5405	12	17.50	P 9101	11	3.95	P 9908	11	22.50
*FB 458	3	9.25	G 2001	8	4.50	J 4300	14	9.50	F 5500	13	3.60	P 9102	11	5.15	P 9909	11	14.75
*FB 459	3	11.00	G 2002	8	3.20	J 4301	14	11.50	F 5501	13	3.75	P 9103	11	4.35	P 9910	11	16.75
DF 600	4	7.90	G 2003	8	4.75	J 4302	14	13.75	F 5502	13	5.70	P 9200	10	6.75	P 9911	11	18.75
DF 601	4	10.00	G 2004	8	5.90	H 4100	7	19.75	F 5503	13	7.45	P 9201	10	6.75	P 9912	11	18.25
DF 602	4	10.00	G 2005	8	8.75	H 4101	7	19.75	F 5504	13	7.10	P 9202	10	7.50	P 9914	11	22.50
DF 603	4	10.00	G 2006	8	8.75	H 4102	7	19.75	F 5505	13	7.50	P 9203	10	7.50	P 9916	11	15.75
DF 604	4	10.00	G 2007	8	4.30	H 4103	7	22.50	F 5506	13	4.50	P 9204	10	8.40	P 9918	11	14.25
DF 605	4	10.00	G 2008	8	2.80	*H4111	Back Cover	41.25	F 5507	13	5.75	P 9205	10	8.40	*P 9999	5	26.50
*DF 606	4	12.40						F 5508	13	7.40							
*DF 607	4	12.40						F 5509	19	26.75							
*DF 608	4	10.00						F 5510	13	29.75							
EM 700	4	8.25															
EM 701	4	10.95															

* New item added to this catalog

GRAMER-HALLDORSON TV COMPONENTS

HORIZONTAL OUTPUT (Flyback) TRANSFORMERS

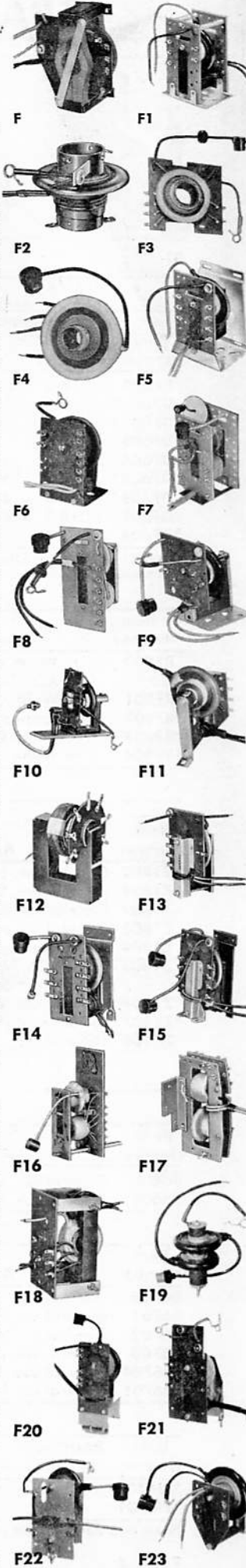
"Better than originals" . . . Exclusive Plaskoil virtually encapsulates vital windings. Corona-resistant—Plaskoil guards against flash-overs and breakdowns . . . Heat resistant—Plaskoil permits safer operation . . . Non-Hygroscopic—Plaskoil protects against moisture . . . Structurally stronger—Plaskoil will not chip or crack, it is not brittle.

Item Number	Application	Scan.	Anode—KV.	Mtg. Type	List Price
FB400	Equiv. to RCA 211T3 for early circuits	50-57°	9-10	F	\$ 9.50
FB401	Equiv. to GE 77J1 (RTO-085)	60-70°	10-14	F1	10.00
FB402	Equiv. to RCA 211T5 for voltage doubling circuits	50-57°	13-14	F	10.50
FB403	General replacement and conversion	60-70°	12-13	F	10.50
FB404	Direct Drive RCA, Emerson, Capehart, etc.	70°	12-14	F2	6.50
FB405	Admiral 79C30-2, 79C30-4 and 79D38-1 (Coil only)	70°	12-15	F3	7.65
FB406	Admiral 79C30-1 and 79C30-3 (Coil only)	70°	12-15	F4	7.85
FB407	Philco 32-8533 and 32-8534 (Coil only)	70°	14-16	F4	5.60
FB408	Philco 32-8555 (Coil only)	70°	13-15	F4	5.95
FB409	Philco 32-8465-2, -8484-2, -8509, -8509-2	70°	13-15	F5	9.95
FB410	Multipurpose. Matches 8-25 mh. yokes and Hi/Low mh. width coils. Separate winding for hor. phase Det/AGC, Univ. mounting bracket	53-70°	10-15	F5	9.95
FB411	Autoformer type equiv. to RCA 230T1	70°	16-18	F6	10.00
FB412	Exact repl. for Airline, Raytheon, Truetone C-2 1025-1	70°	11-13	F7	10.50
FB413	Exact repl. for Muntz T0-0031, T0-0031-1, T0-0031-2	70°	13-15	F8	9.95
FB414	Exact repl. for Emerson 738056 and 738060	70°	12-14	F9	10.50
FB415	Exact repl. for Emerson 738067, 738068, 738609, 738073, 738074, 738075, 738082	70°	14-16	F9	10.50
FB416	Exact repl. for Muntz T0-0036, T0-0036-1, T0-0036-2	90°	15-17	F8	10.50
FB417	Exact repl. for Crosley 157820-5-1, Hallicrafters 55D251	70°	13-15	F10	8.90
FB418	Exact repl. for Sentinel and Crosley AD 158481-4-1, Hallicrafters 55D253	90°	13-15	F10	9.25
FB419*	Autoformer type equiv. to RCA 235T1 with AGC WDG	90°	15-18	F6	11.50
FB420	Exact repl. for Admiral 79C60-3, -4, -5, -6	90°	13-15	F11	9.00
FB421	Exact repl. for RCA 76501	70°	13-15	F19	6.50
FB422	Exact repl. for RCA 75519, 75585, 76381	70°	13-15	F19	6.75
FB423	Exact repl. for Sylvania 241-0003	70°	13-15	F12	8.00
FB424	Exact repl. for Sylvania 241-0005, 6	70°	13-15	F12	8.15
FB425	Exact repl. for Sylvania 241-0007	70°	13-15	F12	8.25
FB426	Exact repl. for Sylvania 241-0010, 241-0012	90°	13-15	F12	9.00
FB427	Exact repl. for Emerson 738091, 738099, 738100	70°	13-15	F8	10.50
FB428	Exact repl. for GE RTO 146-3, 131, 141, 163-3	70°	16-18	F1	10.50
FB429	Exact repl. for Philco 32-8634	90°	13-21	F6	10.50
FB430	Zenith under chassis	70°	13-15	F13	9.50
FB431	Exact repl. for Air King, CBS, Silvertone 10104, 10107, 10108, 10110, 10126, 10135	70°	13-15	F14	10.50
FB432	Exact repl. for Philharmonic 80-263, 80-265, -2, 80-279, Airline, Apex, Ambassador, Pathe, Brunswick, Silvertone, Olympic, Starrett, Lafayette, Meck	70°	13-15	F15	10.00
FB433	Exact repl. for Motorola 24C701134, 710636, 792596, -D, 24K700588, 701099, 792753	70°	13-15	F17	10.50
FB434	Exact repl. for Motorola 24K721301, 24K721301C, 24K721517C	70°	13-15	F16	13.25
FB435	Exact repl. for Motorola 24K712193	70°	13-15	F16	13.25
FB436	Exact repl. for Motorola 24C711265, 24C721290	70°	13-15	F16	13.25
FB437	Exact repl. for Westinghouse V9904-1, V10213-1	70°	13-15	F9	10.50
FB438	Exact repl. for Westinghouse V9904-2, V10204-1, V10214-1	70°	13-15	F9	10.50
FB439	Exact repl. for Airline, Raytheon, Coronado, Truetone 12M-18530, 12M-18689, -1, -2, 201-18562, -1	70°	11-13	F11	10.75
FB440	Exact repl. for Airline, Raytheon, Truetone 201-19874, 201-1999-1, 201-21270-1, Sentinel 22E8, Sparton PC70015, Wells Gardner 53X326, -8, -9, 53X330	70°	16-18	F5	14.00
FB441	Exact repl. for Dumont 20005021	70°	11-13	F9	10.50
FB442	Exact repl. for Philco 32-8428, -1, -2	50-57°	13-15	F18	12.00
FB443	Exact repl. for Admiral 79D41-1, -2, Sheraton, Video Products EL-106, EL-119, B	70°	13-15	F11	10.50
•FB444	Exact repl. for Emerson 738079, 738084	70°	12-13	F6	10.00
•FB445	Exact repl. for RCA 77833	90°	14-18	F19	6.75
•FB446	Exact repl. for RCA 78201, 78810, 79870	90°	13-16	F20	10.00
•FB447	Exact repl. for CBS 12001051, 12001091	70°	14-16	F23	10.00
•FB448	Exact repl. for Raytheon 12E-24612, -1	70°	12-15	F22	9.25
•FB449	Exact repl. for Sentinel, Airline 22E57	70°	10-14	F21	10.00
•FB450	Exact repl. for Sentinel, Airline 22E67	70°	12-14	F21	10.00
•FB451	Exact repl. for Sentinel, Airline 22E75	70°	12-14	F16	12.25
•FB452	Exact repl. for GE RTO-101	70°	12-15	F1	10.50
•FB453	Exact repl. for GE RTO-104	70°	12-14	F1	10.50
•FB454	Exact repl. for GE RTO-109	70°	12-14	F1	10.50
•FB455	Exact repl. for GE RTO-125, 6, 7	70°	12-14	F1	9.75
•FB456	Exact repl. for GE RTO-129, 130	70°	12-14	F1	9.50
•FB457	Exact repl. for Raytheon 12E-23939; Bendix 265106-1	70°	11-14	F22	9.25
•FB458	Exact repl. for Muntz T0-0028, 29	70°	12-14	F8	9.25
•FB459	Exact repl. for Hoffman 5187	90°	18-20	F11	11.00

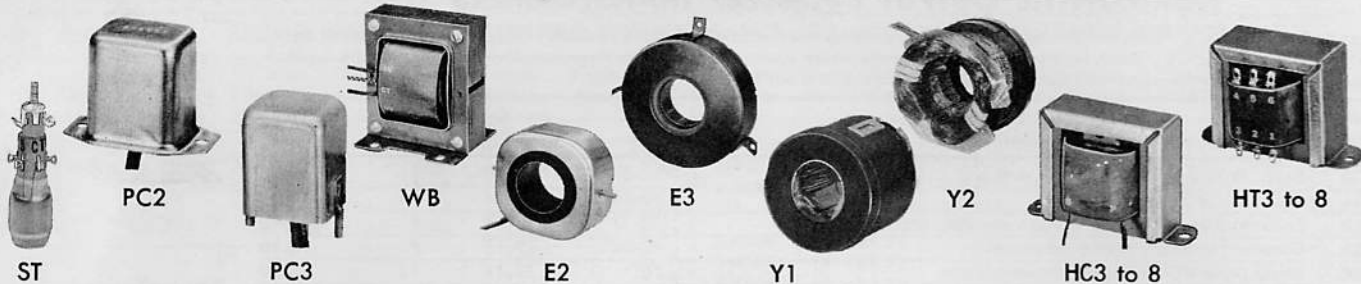
*Improved design with AGC winding available September 15, 1955.

•New item added to this catalog.

Shipping weight averages 1 lb.



GRAMER-HALLDORSON TV COMPONENTS



DEFLECTION YOKES

Item Number	Inductance (MH)		Resistance (OHMS)		Scan	Winding	Core Mat'l.	R-C Network and 20" Leads	Dimen.		Mtg. Type	Shpg. Wt. Lbs.	List Price
	Horiz.	Vert.	Horiz.	Vert.					Dia.	Lgth.			
DF600	8.3	50.0	10.0	60.0	53°	Conventional	Iron	None	3 1/8	3	Y1	1 1/4	\$ 7.90
DF601*	8.5	50.0	11.0	50.0	70°	Cosine-Mod.	Ferrite	Complete	3 1/8	2 3/8	Y2	1 1/2	10.00
DF602*	13.5	50.0	18.5	50.0	70°	Cosine-Mod.	Ferrite	Complete	3 1/8	2 3/8	Y2	1 1/2	10.00
DF603†	30.0	3.5	35.0	3.6	70°	Cosine-Mod.	Ferrite	Complete	3 1/8	2 3/8	Y2	1 1/2	10.00
DF604†	30.0	50.0	45.0	50.0	70°	Cosine-Mod.	Ferrite	Complete	3 1/8	2 3/8	Y2	1 1/2	10.00
DF605*	21.0	50.0	30.0	50.0	70°	Cosine-Mod.	Ferrite	Complete	3 1/8	2 3/8	Y2	1 1/2	10.00
DF606†	12.0	44.0	18.0	42.0	90°	Cosine-Hi-eff.	Ferrite	Complete	3 1/8	3 1/4	Y2	1 1/2	12.40
DF607*	18.5	44.0	29.0	42.0	90°	Cosine-Hi-eff.	Ferrite	Complete	3 1/8	3 1/4	Y2	1 1/2	12.40
DF608	25.0	50.0	35.0	50.0	70°	Cosine-Mod.	Ferrite	Complete	3 1/8	2 3/4	Y2	1 1/2	10.00

*Employs Gramer-Halldorson exclusive fifth-lead external control of network. †Heavily insulated at 6000 volts for Direct-Drive Service.
 ‡Complete with hardware for large 4 3/4" Yokes.

WIDTH OR LINEARITY COIL

Item Number	Application	Inductance		Resist Ohms	Mtg. Type	Ship. Wt. Lbs.	List Price
		WDG #1	WDG #2				
RF800	Width and Lin. Coil	3.5—31 MH	2.0—8.5 MH	27.5	ST	1/8	\$2.20
•RF801	AGC WDG Width Coil	.050—.50 MH		23 CT			
•RF802	Tapped Lin. Coil	.55—4.6 MH		0.53	ST	1/8	1.50
•RF803	Width Coil	.170—.610 MH		8.3	ST	1/8	1.50
•RF804	Width Coil	.5—3.5 MH		1.0	ST	1/8	1.50
				2.3	ST	1/8	1.50

VERTICAL OUTPUT TRANSFORMERS

Item Number	Application	Turns Ratio Pri. to Sec.	Pri. D.C. Ma.	D.C. Resist. Pri. Sec.	Dimensions Overall			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price	
					H	W	D					
Z1800	General use. Equiv. RCA 204T2	10:1	13	600	7.0	3 1/16	2 1/2	2 3/16	1 1/2x2	WB	2 1/2	\$6.60
Z1801	General use. Equiv. RCA 204T9	10:1	10	525	7.0	3 1/16	2 1/2	2 1/4	1 1/2x1 3/4	WB	2	6.05
Z1802	General use. Equiv. Motorola 25C790151	10:1	15	530	11.0	2 1/4	3 3/4	2	3 1/8	HC7	1 3/4	5.00
Z1803	General use by many manufacturers	10:1	12	1300	10.0	2	3 1/4	1 3/4	2 13/16	HC6	1	4.25
Z1804	Autoformer type. Equiv. RCA 222T1	11.4:1	20	1200	11.0	2	3 1/4	1 3/4	2 13/16	HC6	1	4.25
Z1805	Equiv. RCA 74950, Emer. 738044, Capehart 650238A-1	44:1	20	400	0.3	3 1/16	2 1/2	2 1/2	1 1/2x1 7/8	WB	1 1/4	6.75
Z1806	General use. Autoformer type	18:1	10	1650	4.5	2 1/4	3 3/4	2 1/8	3 1/8	HC7	1 1/2	5.50
•Z1807	For Super V chassis's with blanking wdg.	15:1	15	960	10.0	1 7/8	3 1/4	1 3/4	2 13/16	HC6	1	5.00
Z1900	Universal (bracket furnished)	5.0:1 to 50:1	40	Max.		2	3 1/4	2 1/2	2 13/16 to 3 1/8	HT6	1 1/2	7.00

HORIZONTAL BLOCKING-OSCILLATOR TRANSFORMERS

Item Number	Application	Turns Ratio Pri. to Sec.	Dimensions Overall			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
			H	W	D				
B6600	General use. Equiv. RCA 208T3	2:1	1 3/8	2 3/8	1 1/8	2	HC4	3/8	\$3.00
B6601	General use. Equiv. RCA 208T1	2:1	1 3/4	2 3/16	1 1/2	1 15/16	PC2	1/2	3.75

VERTICAL BLOCKING-OSCILLATOR TRANSFORMERS

Item Number	Application	Turns Ratio Pri. to Sec.	Dimensions Overall			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
			H	W	D				
B6700	General use Adm'l, Hall'rs, Mot'la, West, etc.	1:4.2	1 3/8	2 3/8	1 1/4	2	HC4	3/8	\$2.70
B6701	General use. Equiv. RCA 208T9	1:4.2	1 15/16	1 7/16	1 3/16	1 13/16	PC3	1/4	4.20
B6702	General use by many manufacturers	1:4.2	1 3/16	2 1/16	1	1 3/4	HC3	1/4	2.70
B6703	General use. Equiv. RCA 208T2	1:4.2	1 3/4	2 5/16	1 1/2	1 15/16	PC2	1/2	3.45
•B6704	General use. Equiv. Crosley B155255-3-1	1:3.33	1 3/16	2 1/16	1 1/8	1 3/4	HC3	1/4	2.70
•B6705	General use for Philco	1:1.5	1 3/4	2	1 1/2	1 3/4	VC4	1/2	3.00

FOCUS COILS

Item Number	Resistance in Ohms	Current Range Ma.	C. R. Tube H.V. in K.V.	Equivalent RTMA RCA	Dimensions Overall		Mounting	Mtg. Type	Shipping Wt. Lbs.	List Price
					H	D				
*EM700	247	75-200	8-12	106	202D1	3 11/32x3 11/32x1 2 3/4	2 Opposed No. 8 Studs	E2	2 1/8	\$ 8.25
*EM701	470	75-140	9-14	109	202D2	4 3/4 Dia. x 1 1/8	3 Bkts., 2 11/16 Radius	E3	3 3/8	10.95

*New item added to this catalog edition.

*To be removed from next catalog.

GRAMER-HALLDORSON TV COMPONENTS



VC3 to 8



HS



HSC



HSS



USC

TV POWER TRANSFORMERS

Item Number	High Voltage Supply		5.0 VOLTS	6.3 VOLTS	12.6 VOLTS C.T.	Dimensions Overall			Mounting Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
	A. C. Volts	D. C. MA.				H	W	D				
P9701	225-0-225	90	2.0 Amp.	5.15 Amp.		3 3/4	2 13/16	3 3/8	2 1/4 x 2 13/16	HS	4 1/2	\$11.10
P9702	335-0-335	175	2.0 Amp.	1.2 Amp. 7.0 Amp.		4 5/8	3 3/4	3 7/8	3 x 2 13/16	USC	8 1/8	18.00
P9703 †	380-0-380	180	3.0 Amp.	9.0 Amp.		5 1/2	3 7/16	4 1/8	2 3/4 x 3 7/16	HSS	9 3/4	20.42
P9705	360-0-360	200	3.0 Amp.	1.2 Amp. 7.75 Amp.		5 5/16	3 13/16	4 3/4	3 3/16 x 4 1/16	HSC	12 1/8	25.50
P9707	375-0-375	205	2.0 Amp. 3.0 Amp.	5.6 Amp.		4 1/4	3 3/4	4 1/2	3 x 3 3/4	HS	10	19.50
P9708	378-0-378	205	3.0 Amp.	1.2 Amp. 9.5 Amp.		4 5/8	3 3/4	4 5/8	3 x 3 3/16	USC	10 7/8	20.00
P9730	380-0-380	225	3.0 Amp.	1.2 Amp. 5.0 Amp. 7.0 Amp.	* 5.5 Amp.	4 5/8	3 3/4	4 5/8	3 x 3 3/16	USC	11	23.50
P9731	380-0-380	225	3.0 Amp.	1.2 Amp. 5.0 Amp. 7.0 Amp.	* 5.5 Amp.	4 5/8	3 3/4	4 1/2	3 x 3 3/4	HSC	11	23.50
P9733	300-0-300	230	3.0 Amp.	9.0 Amp.		4 1/4	3 7/16	4 1/8	2 3/4 x 3 7/16	HSC	8	19.25
P9709	385-0-385	230	2.0 Amp. 3.0 Amp.	9.0 Amp.		5 5/16	3 13/16	4 3/4	3 3/16 x 4 1/16	HSC	12	27.50
P9711	360-0-360	250	2.0 Amp. 5.0 Amp.	2.7 Amp. 9.0 Amp.		5 1/8	3 3/4	4 1/2	3 x 3 3/4	HSC	13	25.00
P9713	360-0-360	250	2.0 Amp. 3.0 Amp.	0.6 Amp. 8.0 Amp.		5 5/16	3 13/16	4 3/4	3 3/16 x 4 1/16	HSC	11 1/2	24.90
P9719	350-0-350	270	2.0 Amp. 6.0 Amp.	1.6 Amp. 7.8 Amp.		5 1/4	3 3/4	4 1/2	3 x 3 3/4	HSC	13 1/8	25.00
P9721	365-0-365	295	2.0 Amp. 6.0 Amp.		5.0 Amp.	6 5/8	3 13/16	4 3/4	3 3/16 x 4 1/16	HSC	17 1/4	30.90
P9737	340-0-340	335	6.0 Amp.	2.5 Amp. 5.0 Amp. 5.0 Amp.	* 5.0 Amp.	6	3 13/16	4 3/4	3 3/16 x 4 1/16	HSC	13	28.50
P9739	280-0-280	400	6.0 Amp.	4.5 Amp. 8.5 Amp.	* 5.0 Amp.	6	3 13/16	4 3/4	3 3/16 x 4 1/16	HSC	13	25.00

TYPES WITH TWO OR MORE HIGH VOLTAGE LEVELS

P9715 †	332-0-332 207-0-207	180 70	3.0 Amp.	1.2 Amp. 9.0 Amp.		5 1/2	3 3/4	4 1/2	3 x 3 3/4	HSS	13 1/4	\$27.50
P9735	350-0-350 220-0-220	180 70	3.0 Amp.	2.0 Amp. 10.0 Amp.		4 3/4	3 3/4	4 1/2	3 x 3 3/4	HSC	11 1/2	27.00
P9717	360-0-360 167-0-167	185 65	3.0 Amp.	12.0 Amp.		4 3/8	3 3/4	4 1/2	3 x 3 3/4	HS	10 1/2	21.45
P9723	375-0-375 325-0-325	170 130	2.0 Amp. 3.0 Amp. 3.0 Amp.	2.6 Amp.	5.0 Amp.	5 3/8	3 3/4	4 1/2	3 x 3 3/4	HSC	13 7/8	27.50
P9725	385-0-385 235-0-235	195 105	2.0 Amp. 2.0 Amp. 3.0 Amp.	0.6 Amp. 7.65 Amp.		4 3/4	3 3/4	4 1/2	3 x 3 3/4	HS	11 5/8	26.60
P9727	400-0-400 212-0-212	220 90	2.0 Amp. 3.0 Amp. 3.0 Amp.	2.6 Amp. 10.0 Amp.		5 3/8	3 3/4	4 1/2	3 x 3 3/4	HSC	14 3/8	27.25
P9728	405-0-405 325-0-325	240 200	3.0 Amp. 3.0 Amp. 3.0 Amp.	2.6 Amp. 6.0 Amp. 6.0 Amp.	* 6.0 Amp.	6	4 5/8	5 1/2	3 3/8 x 4	USC	17 7/8	41.90
*P9999	84OCT 73OCT 60OCT 37OCT	300		4.0 Amp. 4.0 Amp. 3.0 Amp. 1.2 Amp.		5 1/8	4 1/2	3 3/4	Univ.	HSC	13	26.50

* Bracketed windings may be used separately for 6.3 volts or in series for 12.6 volts C.T.

PRIMARIES FOR 117 VOLT, 60 CYCLE OPERATION

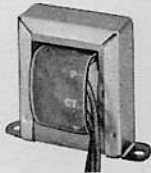
† Has rectifier socket internally wired and mounted on shell.

*New item added to this catalog addition.

AUDIO OUTPUT



HC3 to 8



VC3 to 8



HT3 to 8



VT3 to 8



HS3 to 8



VS3 to 8

SINGLE PLATE TO VOICE COIL AND LINE

Item Number	Typical Output Tubes	Primary Impedance	Secondary Impedance	Primary		Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
				Ma.	Watts	H	W	D				
Z1100	50L6, 25L6, 25B6, 48	1500	2/4/6	55	5	1 3/8	2 3/8	1 3/8	2	HC4	1/2	\$2.90
Z1101	50L6, 35A5, 25B6	2000	3.2	50	3	1 3/8	2 1/8	1	1 3/4	HC3	1/2	1.60
Z1102#	50L6, 35A6, 25L6, 2A3 (5% Tap)	2000	4	50	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	1.90
Z1103#	25L6 (5% Tap)	2500	4	50	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.20
Z1104	35L6, 2A3	2500	4/8/16	60	10	1 7/8	3 1/4	1 3/4	2 13/16	HC6	1	3.45
Z1105#	50L6, 35B5, 7A5 (3% & 6% Taps)	3000	4	50	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.60
Z1106	71A, 45, 25A6, 12A5	4000	4/8/16	40	10	1 7/8	3 1/4	1 3/4	2 13/16	HC6	1	3.75
Z1107	43, 25A6, 2A5	4500	4	35	5	1 3/8	2 3/8	1 3/8	2	HC4	1/2	2.00
Z1108	45, 25A6, 6L6, 6V6	5000	4/8/15/500	55	20	3 1/8	2 5/8	2 5/8	2 x 1 11/16	US	2 1/2	8.00
Z1109	50, 31, 25A7G, 6V6	5000	4/8/16	50	8	1 7/8	3 1/4	1 3/4	2 13/16	HC6	1	3.50
Z1110	1S4, 3S4	6000	4	10	3	1 1/8	2 1/8	7/8	1 3/4	HC3	1/3	2.00
Z1111	50B5, 50L6, 35A5	2000 or 6000	3.2	60 or 10	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.65
Z1112	6AC5, 6B5, 6F6, 6N7	7000	4/8/16	40	10	1 7/8	3 1/4	1 3/4	2 13/16	HC6	1	3.40
Z1113	7B5, 6K6, 6F6, 42	7000	4	30	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	1.95
Z1114		2500/4000/5000/6000/7000	500	60	10	2 3/4	3 3/8	2 1/4	2 13/16	VT7	1 1/2	7.50
Z1115	6F6, 6K6, 6N6, 7B5	7600	3.2	35	5	1 3/8	2 3/8	1 3/8	2	HC4	1/2	2.65
Z1116	3Q4 (bat.) and 35L6 (A.C.)	9000 and 2500	3.2	10/40	4	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.75
Z1117	6N7, 3C5, 1J6	10,000	4	30	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	1.90
Z1118	12A7, 6Y7, 6V7, 1T5	15,000	4	10	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.15
Z1119	1N6, 1LA4, 1D8, 1A5	25,000	4	5	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.45

Primary tapped for hum-reducing circuit.

PUSH-PULL PLATES TO VOICE COIL AND LINE

Z1400	P.P. Par. 6L6, 45	3300/3800	4/8/250/500	250	75	4 3/4	3 3/8	3 3/8	3 x 2 13/16	US	8	\$15.00
Z1401	P.P. 6L6 (10% F.B. Winding)	4400	4/8/16/250/500	140	30	3 5/8	3	3 1/4	2 1/4 x 2	US	3 1/2	10.75
Z1402	P.P. 2A3, 6A3 (Fixed Bias)	5000	4/8/16	80	15	2 3/8	2 3/8	1 3/4	2 3/8	VC6	1	3.90
Z1403	P.P. 6L6 (F.B. Winding)	6600	4/8/16/500	150	35	4	3 1/4	3 3/8	2 1/2 x 2 1/16	US	4 3/4	11.50
Z1404	P.P. 6V6, 6F6, 2A5	10,000	4/8/16	60	12	2 3/8	2 3/8	1 3/4	2 3/8	VC6	1	3.50
Z1405	P.P. 45, 6V6, 6AC5	10,000/7,000	4/8/16/500	120	25	3 1/8	2 3/8	2 3/4	2 x 1 11/16	US	2 1/2	9.50
Z1406	P.P. 89, 47, 7B5, 6K6	14,000	4/8/16	60	15	2 3/8	2 3/8	1 3/4	2 3/8	VC6	1	3.50
Z1407		8,000/10,000/12,000/14,000	500	55	10	2 3/4	3 1/8	2 1/4	2 13/16	VT7	1 3/4	7.75
Z1408	P.P. 6Z7, 6K6, 1S6	20,000	4/8/16	50	15	2 3/8	2 3/8	1 3/4	2 3/8	VC6	1	3.75
Z1409		Single 5000/10,000—P.P. 20,000	50/125/333/500	15	10	2	3 1/4	1 3/4	2 13/16	HT6	1	4.95
Z1410	P.P. 1F4, 1J5, 1T5, 6G6	25,000	4	20	5	1 3/8	2 3/8	1 3/8	2	HC4	1/2	2.50
Z1411	P.P. 1A5-1N6	50,000	3.5	20	5	1 3/8	2 3/8	1 1/4	2	HC4	1/2	2.70
Z1412	P.P. 1A5G, 1E7G, 1N7G, 6V7G	50,000	4	20	8	1 5/8	2 3/8	1 1/2	2 3/8	HC5	5/8	3.40

AUDIO OUTPUT



PC4



HS



US



UBL



UBT

UNIVERSAL OUTPUT

Item Number	Primary Impedance	Secondary Impedance	Pri. Ma.	Watts	Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
					H	W	D				
Z1000	Single or P.P. Plates 4,000-14,000	0.1 to 50	35	4	1 3/8	2 3/8	1 1/4	2	HT4	1/2	\$3.00
Z1001	Single or P.P. Plates 2,000-13,000	0.1 to 50	50	4	1 3/8	2 3/8	1 3/8	2	HT4	3/8	3.25
Z1002	Single or P.P. Plates 4,000-14,000	0.1 to 50	40	8	1 5/8	2 7/8	1 1/2	2 3/8	HT5	3/4	3.40
Z1003	Single Plate 4000/7000/10,000	3 to 8	40	8	1 5/8	2 7/8	1 1/2	2 3/8	HT5	3/4	3.75
Z1004	Single or P.P. Plates 4,000-20,000	0.5 to 50	50	8	2	2 3/8	1 1/2	2	VT5	3/4	3.90
Z1005	Single or P.P. Plates 2,500-13,000	0.1 to 50	70	8	2	2 1/2	2 1/8	2	VT5	3/4	4.10
Z1006	Single Plate 1500-10,000	0.1 to 30	55	10	1 5/8	2 7/8	1 1/2	2 3/8	HT5	3/4	3.35
Z1007	Single or P.P. Plates 2,500-14,000	0.1 to 30	50	10	2 3/8	2 7/8	1 1/2	2 3/8	VT6	1	4.35
Z1009	Single or P.P. Plates 3,500-14,000	0.1 to 50	40	15	2 3/8	2 7/8	2	2 3/8	VT6	1 1/8	4.35
Z1010	Single or P.P. Plates 2,500-13,000	0.1 to 50	70	15	2 3/8	2 7/8	2 3/8	2 3/8	VT6	1 1/2	5.00
Z1011	Single or P.P. Plates 4,000-14,000	0.1 to 50	50	18	2	3 1/4	2	2 13/16	HT6	1 1/4	4.95
Z1012	P.P. Plates 8,000/10,000/12,000/14,000	4-8-16-500	60	18	3 1/8	3 1/2	2 1/2	2 x 1 1/16	US	2 1/4	8.50
Z1013	Single or P.P. Plates 4,000-14,000	0.1 to 50	60	20	3 1/8	3 3/8	2 1/2	3 1/8	VT8	3	5.50

HI-FI AUDIO OUTPUT TRANSFORMERS FOR POPULAR AMPLIFIER CIRCUITS

Item Number	Pri. Imped.	Sec. Imped.	Freq. Response at 25 Watts	Max. Watts	Max. Pri. D.C./Half	Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
						H	W	D				
H4100	3000	8/16	±1 DB 20-20,000 Cps	50	175 Ma.	4 1/4	3 1/2	4 1/4	2 3/4 x 3 1/16	US	7 1/2	\$19.75
H4101	5000	8/16	±1 DB 20-20,000 Cps	50	150 Ma.	4 1/4	3 1/2	4 1/4	2 3/4 x 3 1/16	US	7 1/2	19.75
H4102	9000	8/16	±1 DB 20-20,000 Cps	50	100 Ma.	4 1/4	3 1/2	4 1/4	2 3/4 x 3 1/16	US	7 1/2	19.75
H4103	7400*	4/8/16	±1 DB 10-100,000 Cps	40	100 Ma.	3 1/2	3	3 3/8	2 1/4 x 2	US	6	22.50

* Has extra screen taps for triode-tetrode operation. Laminations are grain-oriented steel.

BRIDGING, REPEAT, INPUT, INTERSTAGE AND OUTPUT TRANSFORMERS ±1 DB 30-20,000 CPS

These Gramer-Halldorson High Fidelity Transformers are single to quadruple alloy-shielded with high permeability nickel-iron cores. Finish is grey enamel and mounting is by means of a strap-clamp which allows the units to be rotated. They can be used as replacements in the most expensive broadcast equipment or for original components in amplifying systems designed for the best reproductive tone quality.

Item Number	Application	Primary Impedance	Secondary Impedance	Max. D.B.	Max. Pri. Unbal.	Case Ht.	Dimen. Dia.	Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
H4000	Interstage	8,000 to 15,000	60,000 C.T.	+20	3 Ma.	2 5/8	1 3/4	2 1/4	PC4	1	\$27.50
H4001	Output to Line	8,000 to 15,000 in Two Sections	50/125/200 250/333/500	+10	1 Ma.	2 5/8	1 3/4	2 1/4	PC4	1	22.50
H4002	Input	50/125/200 250/333/500	50,000 in Two Sections	0		2 5/8	1 3/4	2 1/4	PC4	1	22.50
H4003	Bridging	20,000	50,000 C.T.	+20	3 Ma.	2 5/8	1 3/4	2 1/4	PC4	1	22.50
H4004	Repeat Coil	500/600 C.T.	500/600 C.T.	+20		2 5/8	1 3/4	2 1/4	PC4	1	27.50

• New item added to this catalog.

INPUT AND LINE



HC3 to 8



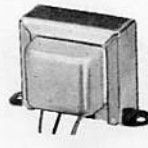
VC3 to 8



HT3 to 8



VT3 to 8



HS3 to 8



VS3 to 8

LINE, MICROPHONE, INTERCOM., TRANSCEIVER INPUT TO GRID

Item Number	Application	Primary Impedance	Secondary Impedance	Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
				H	W	D				
G2000	S. B. Mic. or Line to S. Grid	100	60,000	1 3/8	2 3/8	1 1/2	2	HC4	1/2	\$3.20
G2001	S.B. Mic. or Line to P.P. Grids	100	400,000	2 3/8	2 7/8	1 3/4	2 3/8	VC6	1 1/4	4.50
G2002	S.B. Mic. or Line to S. Grid	200/70	80,000	1 3/8	2 3/8	1 3/8	2	HC4	1/2	3.20
G2003	D.B. Mic. or Line to S. Grid	200 C.T.	125,000	2 3/8	2 7/8	1 7/8	2 3/8	VC6	1	4.75
G2005	S./D.B. Mic. or Line to P.P. Grids	500/333/200/125/50	100,000	2 3/8	2 7/8	2 1/4	2 3/8	VS6	1 1/4	5.90
G2006	S./D.B. Mic., Line or Mixer to Single Grid	†500 C.T./†200 C.T./250/50	60,000	3	2 3/8	2 3/8	2 x 1 13/16	US	2 1/2	8.75
G2007	Transceiver Micr. & Plate to Grid	200 and 5000	60,000	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	4.30
G2008	Intercommunicator Input	4	25,000	1 3/8	2 3/8	1 1/2	2	HS4	1/2	2.80

LINE TO LINE

L2400	Line to Line 10 Watts	500/333/200/ 125/50	500/333/200/ 125/50	2	3 1/4	1 3/4	2 13/16	HT6	1	\$6.50
L2401	Line to Line or Line to V.C. 15 Watts	†500 C.T./†200 C.T./ 250/50	4/8/15/500	3	2 3/8	2 3/4	2 x 1 13/16	US	2 1/2	9.90

SPEAKER MATCHING

Item Number	Primary Impedance	Secondary Impedance	Watts	Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
				H	W	D				
S3500	500	3.2/6-8	5	1 3/8	2 3/8	1 3/8	2	HT4	1/2	\$2.35
S3501	2000/1500/1000/500	3.2/6-8	8	1 3/8	2 3/4	1 5/8	2 3/8	HT5	3/4	3.20
S3502	2000/1500/1000/500	3.2/6-8	12	2 3/8	2 7/8	1 3/4	2 3/8	VT6	1 1/8	4.25
S3503	8000/6000/4000/2500	6-8	12	2 3/8	2 7/8	1 3/4	2 3/8	VC6	1 1/8	4.25
S3504	2000/1500/1000/500	3.2/6-8	18	2 3/8	2 7/8	1 3/4	2 3/8	VT6	1 3/4	5.24
S3505	500	8/4/2.65/2.35/2/ 1.5/.7/.5/.3/.2/.1/.05	15	2 1/4	2 7/8	2	2 3/8	VT6	1 1/2	5.50
S3506	1500/1000/500	4/8/16	25	3 1/8	3 3/8	2 1/4	3 1/8	VT8	2 1/2	5.45
S3507 *	10,000/5000/2500/1250/625	4/8/16	8	2	2 1/2	1 5/8	2	VT5	3/4	4.50
S3508 *	10,000/5000/2500/1250/625/312.5	4/8/16	16	2 3/4	3 1/4	2 1/4	2 13/16	VT7	1 1/2	6.30

† Inductive and capacitive balance to center tap.

* 70.7 volt line-to-voice coil application. Power level adjustable in 3 db steps.

AUDIO INTERSTAGE



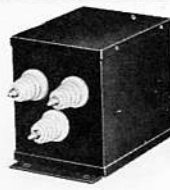
HS



US



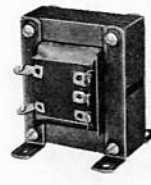
US1



PC



UBL



UBT

SINGLE PLATE TO SINGLE GRID

Item Number	Nominal Primary	Impedance Secondary	Turns Ratio	Primary D.C. MA.	H	Dimensions W	D	Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
A2500	10,000	90,000	1:3	10	2 1/8	2 3/4	2 3/8	2 13/16	HC6	1 1/2	\$3.85
A2501	10,000	90,000	1:3	10	1 3/8	2 3/8	1 1/2	2	HC4	1/2	2.65
A2502	10,000	90,000	1:3	10	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	3.50
A2504	10,000	40,000	1:2	10	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	3.40

SINGLE PLATE TO PUSH-PULL GRIDS

A2600	10,000	160,000	1:4	10	3	2 5/8	2 3/8	2 x 1 11/16	US	2 1/2	\$7.95
A2601	10,000	160,000	1:4	10	2	3 1/4	1 3/4	2 13/16	HC6	1	4.10
A2602	10,000	122,500	1:3.5	10	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	3.90
A2603	10,000	90,000	1:3	10	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	3.05
A2604	10,000	90,000	1:3	10	2	3 1/4	2	2 13/16	HC6	1	3.80

PUSH-PULL PLATES TO PUSH-PULL GRIDS

A2700			1:1*/1:1.5/1:2/1:3*/1:6	10	2	3 1/4	2	2 13/16	HC6	1 1/2	\$5.00
A2701	20,000	45,000	1:1.5	10	2	3 1/4	2 3/8	2 13/16	HC6	1	5.10

P.P. PLATES TO P.P. GRIDS—SPLIT SECONDARIES

A2710	10,000	90,000	1:3	10	2 3/8	2 7/8	1 3/4	2 13/16	HC6	1	\$5.25
A2711	10,000	90,000	1:3	10	2 1/4	3 3/4	2 3/8	3 1/8	HC7	2	6.90

DRIVER

SINGLE PLATE TO PUSH-PULL GRIDS

Item Number	Plate Load Impedance	Ratio Primary 1/2 Sec.	Primary D.C. MA.	Max. Watts	H	Dimensions W	D	Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
D6000	6,000-10,000	2.5:1	15	1.5	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	\$3.15
D6001	8,000-12,000	2:1	15	2.0	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	3.25
D6002	4,500- 7,500	2.5:1	40	5.0	3 1/4	2 5/8	2 3/4	2 x 1 7/16	US	2 1/2	7.45
D6003	8,000-12,000	4:1	15	2.0	1 5/8	2 7/8	1 1/2	2 3/8	HC5	5/8	3.75
D6004	6,000-10,000	5:1	20	3.0	2	3 1/4	1 7/8	2 13/16	HS6	1	5.10
D6005	8,000-12,000	3:1	20	3.0	2 1/2	2 7/8	1 7/8	2 13/16	HS6	1	4.90
D6006	9,500-15,000	2.2:1	30	3.0	2 1/2	2 7/8	1 7/8	2 3/8	VS6	1	5.10

PUSH-PULL PLATES TO PUSH-PULL GRIDS

D6100	16,000-24,000	3:1	12/12	2.0	1 5/8	2 7/8	1 1/2	2 3/8	HC5	5/8	\$3.50
D6101	16,000-24,000	2.8:1	18/18	6.0	3 1/8	4	2 3/8	3 1/16	HC8	2 1/2	7.25
D6102	4,000- 6,000	2:1	50/50	12.0	3 1/2	2 7/8	3 1/4	2 1/4 x 2	US	3 3/4	11.25
D6103	4,000- 6,000	5:1	45/45	10.0	3 1/8	2 5/8	2 3/8	2 x 1 11/16	US	2 3/4	8.90

UNIVERSAL TYPE

D6200	500 Ohm Line		‡	15.0	3 1/8	2 5/8	3 3/8	2 x 1 11/16	US1	3 1/4	\$17.10
D6201	2500/6000/10,000*	1:1/1.5/1:2/1:3	35/35	3.0	2	3 3/8	1 3/4	2 13/16	HC6	1	4.65

‡ 1:0.75/1:0.85/1:1/1:1.25/1:1.45/1:1.75/1:2/1:2.25/1:2.5/1:2.75/1:3.15

* This ratio center-tapped for push-pull primary.

POWER



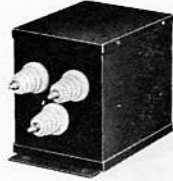
HS



US



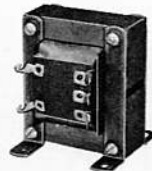
US1



PC



UBL



UBT

PLATE AND FILAMENT

Item Number	Plate A.C. Load Volts	D.C. Ma.	Fil. No. 1		Fil. No. 2		Dimensions			Mtg. Ctrs.	Mtg. Type	Shpg. Wt. Lbs.	List Price
			Volts	Amp.	Volts	Amp.	H	W	D				
P9200	235-0-235	40	5	2	6.3 C.T.	2	3 $\frac{1}{8}$	2 $\frac{3}{8}$	2 $\frac{5}{8}$	2 x 1 $\frac{1}{16}$	US	2 $\frac{1}{4}$	\$ 6.75
P9201	235-0-235	40	5	2	6.3 C.T.	2	2 $\frac{5}{8}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	2 $\frac{1}{4}$	6.75
P9202	240-0-240	55	5	2	6.3 C.T.	2	3 $\frac{1}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{4}$	2 x 1 $\frac{11}{16}$	US	2 $\frac{1}{2}$	7.50
P9203	240-0-240	55	5	2	6.3 C.T.	2	2 $\frac{3}{4}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	2 $\frac{1}{2}$	7.50
P9204	250-0-250	70	5	2	6.3 C.T.	2.5	3 $\frac{1}{8}$	2 $\frac{3}{8}$	3 $\frac{1}{8}$	2 x 2 $\frac{1}{16}$	US	3 $\frac{1}{4}$	8.40
P9205	250-0-250	70	5	2	6.3 C.T.	2.5	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	3 $\frac{1}{4}$	8.40
P9206	260-0-260	90	5	2	6.3 C.T.	3	3 $\frac{5}{8}$	3	3 $\frac{1}{2}$	2 $\frac{1}{4}$ x 2 $\frac{1}{4}$	US	4	9.45
P9207	260-0-260	90	5	2	6.3 C.T.	3	3 $\frac{5}{8}$	2 $\frac{7}{8}$	3 $\frac{1}{2}$	2 $\frac{1}{4}$ x 2 $\frac{13}{16}$	HS	4	9.45
P9208	270-0-270	120	5	3	6.3 C.T.	3.5	4	3 $\frac{1}{4}$	3 $\frac{1}{2}$	2 $\frac{1}{2}$ x 2 $\frac{3}{16}$	US	5	10.45
P9209	270-0-270	120	5	3	6.3 C.T.	3.5	3 $\frac{1}{2}$	3 $\frac{1}{8}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$ x 3 $\frac{1}{8}$	HS	5	10.45
P9300	325-0-325	40	5	2	6.3 C.T.	2	3 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{3}{4}$	2 x 1 $\frac{11}{16}$	US	2 $\frac{1}{2}$	7.25
P9301	325-0-325	40	5	2	6.3 C.T.	2	2 $\frac{3}{4}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	2 $\frac{1}{2}$	7.25
P9302	325-0-325	55	5	2	6.3 C.T.	2	3 $\frac{1}{8}$	2 $\frac{5}{8}$	3 $\frac{1}{8}$	2 x 2 $\frac{1}{16}$	US	3 $\frac{1}{4}$	7.60
P9303	325-0-325	55	5	2	6.3 C.T.	2	3 $\frac{1}{8}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	3 $\frac{1}{4}$	7.60
P9304	300-0-300	70	5	3	6.3 C.T.	3	3 $\frac{1}{2}$	3	3 $\frac{1}{4}$	2 $\frac{1}{4}$ x 2 $\frac{3}{16}$	US	4	8.60
P9305	300-0-300	70	5	3	6.3 C.T.	3	3 $\frac{1}{4}$	3	3 $\frac{1}{2}$	2 $\frac{1}{4}$ x 2 $\frac{13}{16}$	HS	4	8.60
P9306	340-0-340	70	5	2	6.3 C.T.	2.5	3 $\frac{5}{8}$	3	3 $\frac{3}{8}$	2 $\frac{1}{4}$ x 2 $\frac{1}{8}$	US	3 $\frac{3}{8}$	8.60
P9307	340-0-340	70	5	2	6.3 C.T.	2.5	3 $\frac{1}{2}$	3	3 $\frac{3}{8}$	2 $\frac{1}{4}$ x 2 $\frac{13}{16}$	HS	3 $\frac{3}{8}$	8.60
P9310	350-0-350	90	5	2	6.3 C.T.	3	3 $\frac{5}{8}$	3	3 $\frac{5}{8}$	2 $\frac{1}{4}$ x 2 $\frac{3}{8}$	US	4 $\frac{1}{2}$	9.60
P9311	350-0-350	90	5	2	6.3 C.T.	3	3 $\frac{3}{4}$	2 $\frac{7}{8}$	3 $\frac{5}{8}$	2 $\frac{1}{4}$ x 2 $\frac{13}{16}$	HS	4 $\frac{1}{2}$	9.60
P9312	300-0-300	120	5	3	6.3 C.T.	5	3 $\frac{3}{8}$	3 $\frac{1}{4}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$ x 2 $\frac{3}{16}$	US	5 $\frac{1}{2}$	10.95
P9313	300-0-300	120	5	3	6.3 C.T.	5	3 $\frac{3}{4}$	3 $\frac{1}{4}$	3 $\frac{3}{8}$	2 $\frac{1}{2}$ x 3 $\frac{1}{8}$	HS	5 $\frac{1}{2}$	10.95
P9314	360-0-360	120	5	3	6.3 C.T.	3.5	4	3 $\frac{1}{4}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$ x 2 $\frac{7}{16}$	US	5 $\frac{1}{2}$	10.95
P9315	360-0-360	120	5	3	6.3 C.T.	3.5	3 $\frac{3}{4}$	3 $\frac{1}{4}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$ x 3 $\frac{1}{8}$	HS	5 $\frac{1}{2}$	10.95
P9316	375-0-375	150	5	3	6.3 C.T.	4.5	4 $\frac{1}{4}$	3 $\frac{1}{2}$	4	2 $\frac{3}{4}$ x 2 $\frac{13}{16}$	US	6	12.85
P9317	375-0-375	150	5	3	6.3 C.T.	4.5	3 $\frac{3}{4}$	3 $\frac{1}{2}$	4 $\frac{1}{4}$	2 $\frac{3}{4}$ x 3 $\frac{3}{16}$	HS	6	12.85
P9318	335-0-335	200	5 C.T.	3	6.3 C.T.	5	4 $\frac{3}{4}$	4	4 $\frac{1}{4}$	3 x 3 $\frac{1}{16}$	US	9 $\frac{1}{2}$	17.50
P9321	370-0-370	275	5 C.T.	3	6.3 C.T.	7	4 $\frac{1}{4}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	3 x 3 $\frac{3}{4}$	HS	9 $\frac{1}{2}$	19.50
P9400	440-0-440	130	5	3	6.3 C.T.	3.5	4 $\frac{1}{4}$	3 $\frac{5}{8}$	3 $\frac{1}{8}$	2 $\frac{3}{4}$ x 2 $\frac{13}{16}$	US	7	15.25
P9402	400-0-400	175	5	3	6.3 C.T.	4.5	4 $\frac{3}{4}$	4	4	3 x 2 $\frac{13}{16}$	US	8	16.00
P9403	400-0-400	175	5	3	6.3 C.T.	4.5	3 $\frac{3}{8}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	3 x 3 $\frac{3}{4}$	HS	8	16.00
P9404	400-0-400	200	5	3	6.3 C.T.	5	4 $\frac{3}{4}$	4	4	3 x 2 $\frac{13}{16}$	US	8 $\frac{1}{4}$	14.95
P9405	400-0-400	200	5	3	6.3 C.T.	5	3 $\frac{3}{8}$	3 $\frac{3}{4}$	4 $\frac{1}{2}$	3 x 3 $\frac{3}{4}$	HS	8 $\frac{1}{4}$	14.95
P9406	400-0-400	250	5	4	6.3 C.T.	5	4 $\frac{3}{4}$	4	4 $\frac{1}{2}$	3 x 3 $\frac{3}{16}$	US	10	17.95
P9600	600-0-600	200	5	3	6.3 6.3	3 3	4 $\frac{3}{4}$	4	4 $\frac{3}{4}$	3 x 3 $\frac{1}{16}$	US	8 $\frac{1}{2}$	18.00

PRIMARIES FOR 117 VOLT, 60 CYCLE OPERATION

POWER



HC3 to 8



VC3 to 8



HT3 to 8



VT3 to 8



HS3 to 8



VS3 to 8

FOR USE WITH 6AX5, 6X4, 6X5 OR SELENIUM RECTIFIERS

Item Number	Plate A.C. Load Volts	D.C. Ma.	Filament No. 1 Volts	Filament No. 1 Amp.	H	Dimensions W	D	Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
P9100	125 half wave	15	6.3	0.6	2	2 $\frac{3}{8}$	1 $\frac{3}{8}$	2	VC5	$\frac{3}{4}$	\$3.15
P9101	125-0-125	25	6.3	1.0	2 $\frac{3}{8}$	2 $\frac{3}{8}$	1 $\frac{3}{4}$	2 $\frac{3}{8}$	VC6	1	3.95
P9103	150 half wave	25	6.3	0.5	2	2 $\frac{7}{16}$	1 $\frac{3}{4}$	2	VS5	1	4.35
P9102	125 half wave	50	6.3	2.0	2 $\frac{1}{4}$	3 $\frac{3}{4}$	2 $\frac{1}{8}$	3 $\frac{1}{8}$	HC7	1 $\frac{1}{2}$	5.15
P9210	230-0-230	50	6.3	2.5	3 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{5}{8}$	2 x 1 $\frac{1}{16}$	US	2 $\frac{1}{4}$	6.50
P9211	230-0-230	50	6.3	2.5	2 $\frac{5}{8}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	2 $\frac{1}{4}$	6.55
P9212	240-0-240	70	6.3	3.0	3 $\frac{1}{8}$	2 $\frac{5}{8}$	2 $\frac{7}{8}$	2 x 1 $\frac{1}{16}$	US	2 $\frac{5}{8}$	7.50
P9213	240-0-240	70	6.3	3.0	2 $\frac{7}{8}$	2 $\frac{1}{2}$	3	2 x 2 $\frac{1}{2}$	HS	2 $\frac{5}{8}$	7.50
P9214	260-0-260	90	6.3	4.0	3 $\frac{1}{2}$	3	3 $\frac{1}{2}$	2 x 2 $\frac{1}{4}$	US	3 $\frac{1}{2}$	8.00
P9215	260-0-260	90	6.3	4.0	3 $\frac{1}{2}$	2 $\frac{7}{8}$	3 $\frac{3}{8}$	2 $\frac{1}{4}$ x 2 $\frac{1}{16}$	HS	3 $\frac{1}{2}$	8.35

SPECIAL PURPOSE POWER UNITS

Item Number	Plate A.C. Load Volts	D.C. Ma.	Fil. No. 1 Volts	Fil. No. 1 Amp.	Fil. No. 2 Volts	Fil. No. 2 Amp.	Fil. No. 3 Volts	Fil. No. 3 Amp.	H	Dimensions W	D	Mtg. Ctrs.	Mtg. Type	Shpg. Wt. Lbs.	List Price
P9912	1600	2	2.0 1.25 Tap	1.75	6.3	0.3	6.3	0.3	4	3 $\frac{1}{4}$	3 $\frac{1}{4}$	2 $\frac{1}{2}$ x 2 $\frac{1}{16}$	US	3	\$18.25
P9914	2700	2	2.0 1.25 Tap	1.75	6.3	0.3	6.3	0.3	4	3 $\frac{1}{4}$	3 $\frac{1}{2}$	2 $\frac{1}{2}$ x 2 $\frac{1}{4}$	US	3	22.50
P9916	2400	5	2.5	2.0	2.5	2.0			4 $\frac{1}{4}$	3 $\frac{1}{4}$	3 $\frac{3}{4}$	2 $\frac{3}{4}$ x 2 $\frac{1}{16}$	US	6	15.75
P9918	1500	10	2.5	1.75	2.5	2.1			4	3 $\frac{1}{4}$	3 $\frac{1}{4}$	2 $\frac{1}{2}$ x 2 $\frac{1}{16}$	US	4 $\frac{1}{2}$	14.25
P9901	280-0-280	50	5.0	2.0	6.3	1.5	6.3	0.6	3	3	2 $\frac{1}{2}$	2 x 2 $\frac{1}{2}$	HS	3 $\frac{1}{2}$	8.75
P9903	350-0-350	70	5.0 C.T.	2.0	2.5 C.T.	9.0			3 $\frac{3}{8}$	2 $\frac{7}{8}$	3 $\frac{1}{8}$	2 $\frac{1}{4}$ x 2 $\frac{1}{16}$	HS	3 $\frac{3}{4}$	10.50
P9905	350-0-350	90	5.0 C.T.	3.0	2.5 C.T.	12.5			3	3 $\frac{1}{8}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$ x 3 $\frac{1}{8}$	HS	4 $\frac{1}{4}$	10.75
P9907	400-0-400	110	5.0 C.T.	3.0	2.5 C.T.	3.5	2.5 C.T.	15.0	3 $\frac{3}{8}$	3 $\frac{1}{8}$	3 $\frac{3}{4}$	2 $\frac{1}{2}$ x 3 $\frac{1}{8}$	HS	5 $\frac{1}{2}$	13.00
P9909	350-0-350	120	5.0 C.T.	3.0	2.5 C.T.	3.5	2.5 C.T.	12.5	3 $\frac{3}{8}$	3 $\frac{1}{8}$	3 $\frac{3}{8}$	2 $\frac{3}{4}$ x 3 $\frac{1}{16}$	HS	5 $\frac{1}{2}$	14.75
P9908	320-0-320	150	5.0	3.0	6.3	3.0	6.3 6.3	8.0 1.0	4 $\frac{3}{4}$	4	4	3 x 3 $\frac{1}{16}$	US	9 $\frac{1}{2}$	22.50
P9910	400-0-400 80 Volt Tap	175	5.0 C.T.	3.0	2.5	1.75	6.3 C.T. 6.3 C.T.	2.5 2.5	4 $\frac{3}{4}$	4	3 $\frac{3}{8}$	3 x 2 $\frac{1}{16}$	US	8 $\frac{1}{4}$	16.75
P9911	400-0-400	200	5.0	3.0	6.3 C.T.	5.3	50-24-18V, 25W		4 $\frac{1}{8}$	4 $\frac{1}{8}$	3 $\frac{3}{8}$	3 x 3 $\frac{3}{4}$	HS	7 $\frac{3}{4}$	18.50

PRIMARIES FOR 117 VOLT, 60 CYCLE OPERATION

FILTER CHOKES



HC3 to 8



VC3 to 8



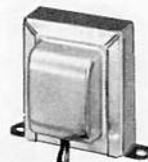
HT3 to 8



VT3 to 8



HS3 to 8



VS3 to 8

SMOOTHING

Item Number	Inductance Hys.	D.C. Ma.	D.C. Res.	Insulation	Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
					H	W	D				
C5000	300	5	5000	2000	1 5/8	2 7/8	1 1/2	2 3/8	HC5	1	\$ 3.40
C5001	20	15	900	1500	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.20
C5002	12	30	400	2000	1 3/8	2 3/8	1 3/8	2	HC4	1/2	2.30
C5003	30	35	700	2000	2	3 1/4	1 3/4	2 13/16	HC6	1	3.50
C5004	12	40	400	2000	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.60
C5005	15	40	400	2000	2	3 1/4	1 3/4	2 13/16	HC6	1	3.60
C5006	3.5	50	200	1500	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.15
C5007	4.5	50	300	1500	1 3/8	2 3/8	1 3/8	2	HC4	1/2	1.85
C5008	6	50	300	1500	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.20
C5009	7	50	550	1500	1 3/8	2 3/8	1 3/8	2	HC4	1/2	2.00
C5010	8.5	50	400	1500	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.20
C5011	16	50	575	1500	2	3 1/4	1 3/4	2 13/16	HC6	1 1/8	2.65
C5012	6	60	200	2000	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.30
C5013	10	60	300	2000	2	3 1/4	1 3/4	2 13/16	HC6	1	3.00
C5014	13	65	500	1500	2	3 1/4	1 3/4	2 13/16	HC6	1	3.10
C5015	8	75	290	2000	2	3 1/4	1 3/4	2 13/16	HC6	1	3.10
C5016	15	75	400	1500	2 1/4	3 3/4	2 1/4	3 3/8	HC7	1 3/4	3.30
C5017	16	80	350	1500	3 1/4	2 5/8	2 5/8	2 x 1 11/16	US	2 1/2	5.40
C5018	20	80	350	2000	2 1/4	3 3/4	2 1/4	3 1/8	HC7	1 1/2	3.75
C5019	8	85	250	2000	2 1/4	3 3/4	2 1/4	3 1/8	HC7	1 1/2	3.40
C5020	5	100	300	3000	2	3 1/4	1 3/4	2 13/16	HC6	1	3.40
C5021	12	110	250	2000	2 5/8	4	3	3 3/16	HC8	2 1/4	4.45
C5022	12	110	250	2000	3 1/4	2 5/8	3	2 x 1 11/16	US	2 1/2	5.50
C5023	8	120	350	2000	2 5/8	4	2 1/8	3 3/16	HC8	2 1/2	5.25
C5024	2.5	130	100	2000	2	3 1/4	1 3/4	2 13/16	HC6	1	3.10
C5025	8	130	110	2000	3 1/4	2 5/8	3	2 x 1 13/16	US	2 1/2	6.15
C5026	2.3	150	60	1500	2	3 1/4	1 3/4	2 13/16	HC6	1	3.20
C5027	7	150	200	1500	2 5/8	4	2 1/4	3 3/16	HC8	2 1/4	4.95
C5028	7.5	150	160	2000	3 1/4	2 5/8	3	2 x 1 13/16	US	2 1/2	6.15
C5029	4	175	100	3000	3 1/4	2 5/8	3	2 x 1 11/16	US	2 1/2	6.30
C5040	1.5	200	85	1500	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	2.35
C5030	2	200	60	1500	2 1/4	3 3/4	2 1/4	3 1/8	HC7	1 3/4	3.85
C5031	4.5	200	80	3000	3 5/8	3	3 1/8	2 1/4 x 2	US	3 1/2	7.25
C5032	8	200	125	3000	3 1/2	2 7/8	3 1/4	2 1/4 x 2	US	3 3/4	8.25
C5033	8.5	200	120	3000	3 7/8	3 1/8	3	2 1/2 x 2 1/4	UBL	4 1/2	8.75
C5034	15	200	150	5000	3 1/2	3 7/8	3 3/4	3 x 2 3/16	US	5 1/2	12.50
C5035	4	250	60	3000	3 1/2	2 7/8	3 1/8	2 1/4 x 2 1/2	UBT	4 1/4	9.10
C5036	4	250	60	3000	3 5/8	3	3 1/2	2 1/4 x 2 3/8	US	4 1/2	10.45
C5037	1	300	45	1500	2 1/4	3 3/4	2 1/4	3 1/8	HC7	1 3/4	3.85
C5038	8	300	80	3000	4 3/4	4	3 7/8	3 x 2 13/16	US	8	13.50
C5039	15	350	150	5000	4 3/4	4	5 1/4	3 x 4 1/16	US	11	19.25
C5041	0.8	375	25	1500	2 1/4	3 3/4	2	3 1/8	HC7	1 3/4	4.35

SWINGING

C5400	4-14	150	130	2000	3 1/8	2 5/8	2 1/2	2 x 1 1/16	US	2 1/2	\$ 6.35
C5401	2-12	175	100	3000	3 1/8	2 5/8	2 5/8	2 x 1 11/16	US	2 1/2	7.10
C5402	2-12	200	80	3000	3 5/8	3	3 1/8	2 1/4 x 2	US	3 1/2	8.00
C5403	2-12	250	60	3000	3 5/8	3	3 1/2	2 1/4 x 2 3/8	US	4 1/4	10.45
C5404	4-20	300	80	3000	4 3/4	4	3 7/8	3 x 2 13/16	US	8	13.50
C5405	5-15	350	100	5000	4 3/4	4	4	3 x 2 3/16	US	9 1/2	17.50

FILAMENT



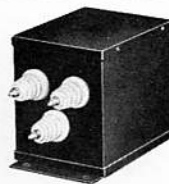
HS



US



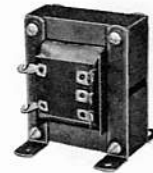
US1



PC



UBL



UBT

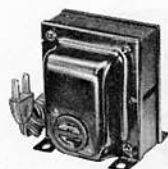
SINGLE SECONDARY

Item Number	Primary	Secondary		Insulation	Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
		Volts	Amp.		H	W	D				
F5500	117	2.5	1.5	2500	1 5/8	2 7/8	1 1/2	2 3/8	HC5	3/4	\$ 3.60
F5501	117	2.5 C.T.	2.5	2000	1 5/8	2 7/8	1 1/2	2 3/8	HC5	7/8	3.75
F5502	117	2.5 C.T.	5	7500	2 5/8	3 1/8	2 1/4	2 13/16	VC7	1 1/2	5.70
F5503	107-117	2.5 C.T.	10	2500	3 1/8	2 5/8	2 5/8	2 x 1 11/16	US	2 1/2	7.45
F5504	117	2.5 C.T.	10	10,000	3 1/2	2 7/8	2 1/2	2 1/4 x 1 7/8	UBT	2 1/2	7.10
F5505	117	5.0 C.T.	3	5000	3	2 1/2	2 1/2	2 x 1 1/2	US	2 1/2	7.50
F5506	117	5.0 C.T.	3	2000	2 3/8	2 7/8	1 3/4	2 3/8	VC6	1	4.50
F5507	117	5.0 C.T.	6	2500	3 1/8	2 1/2	2 1/2	2 x 2	UBT	2 1/4	5.75
F5508	117	5.0 C.T.	10	2500	3 1/8	2 1/2	2 7/8	2 x 2 3/8	UBL	3	7.40
F5509	107-117	5.0 C.T.	14	10,000	5 1/8	4 1/4	8 1/2	2 3/4 x 6	PC	12 1/2	26.75
F5510	107-117	5.0 C.T.	22	10,000	5 1/8	4 1/4	8 1/2	2 3/4 x 6	PC	13 1/2	29.25
F5511	117	6.3 C.T.	1.2	3000	1 5/8	2 7/8	1 5/8	2 3/8	HC5	3/4	2.90
F5529	117	6.3	1.2	5000	2	3 1/4	1 3/4	2 13/16	HC6	1	4.00
F5530	6.3	6.3	1.2	5000	2	3 1/4	1 3/4	2 13/16	HC6	1	4.50
F5512	117	6.3 C.T.	3	2000	2 3/8	2 7/8	1 3/4	2 3/8	VC6	1	4.50
F5513	107-117	6.3 C.T.	4	2500	3 1/8	2 5/8	2 5/8	2 x 1 11/16	US	2 3/4	7.20
F5514	117	6.3 C.T.	6	2500	3 1/8	2 1/2	2 7/8	2 x 2	UBT	2 1/2	6.15
F5515	107-117	6.3 C.T.	6	2500	3 5/8	3	3 1/8	2 1/4 x 2	US	3 1/2	8.75
F5516	107-117	6.3 C.T.	10	2500	3 1/2	2 7/8	2 3/4	2 1/4 x 2 1/8	UBL	3 1/2	7.50
F5517	117	7.5 C.T.	2.5	2000	2 3/8	2 7/8	1 3/4	2 3/8	VC6	1	4.50
F5518	117	7.5 C.T.	4	2500	3 1/8	2 1/2	2 7/8	2 x 2 1/8	UBT	2 3/4	6.00
F5519	117	7.5 C.T.	8	2500	3 7/8	3 1/8	2 7/8	2 1/2 x 2 3/8	UBL	4 3/4	9.00
F5520	107-117	7.5 C.T.	8	2500	4	3 1/4	3 3/8	2 1/2 x 2 3/16	US	4 3/4	9.25
F5521	117	10.0 C.T.	4	2500	3 1/2	2 7/8	2 5/8	2 1/4 x 2 1/8	UBT	3 1/4	7.65
F5522	107-117	10.0 C.T.	5	2500	4	3 1/4	3 1/8	2 1/2 x 1 13/16	US	4	9.00
F5523	107-117	10.0 C.T.	8	2500	4	3 1/4	3 3/8	2 1/2 x 2 7/16	US	5 1/4	10.10
F5524	107-117	10.0 C.T.	12	7500	5 1/8	4 1/4	8 1/2	2 3/4 x 6	PC	14 3/4	28.10
F5525	107-117	11.0 C.T.	10	7500	5 1/8	4 1/4	8 1/2	2 3/4 x 6	PC	13	27.50
F5526	117	12.6 C.T.	3	2000	3	2 1/2	2 7/8	2 x 2 1/16	UBL	3 1/2	6.95
F5527	117	25.2	1	1500	2	3 1/4	2	2 13/16	HC6	1 1/2	4.75
F5528	117	12.6 or 25.2	7 3.5	2500	3 1/8	2 5/8	3 1/2	2 1/4 x 2 5/8	US	5	10.90

MULTIPLE SECONDARY 2000 VOLT INSULATION

Item Number	Primary	Fil. No. 1		Fil. No. 2		Dimensions			Mtg. Ctrs.	Mtg. Type	Shipping Wt. Lbs.	List Price
		Volts	Amp.	Volts	Amp.	H	W	D				
F5900	117	2.5 C.T.	6	5.0 C.T.	3	3	2 1/2	2 1/2	2 x 2	UBL	2 1/2	\$ 7.75
F5901	117	5.0 C.T.	3	5.0 C.T.	3	2 3/4	3 1/8	2 1/2	2 13/16	VC7	1 3/4	7.25
F5902	117	5.0 C.T.	3	6.3 C.T.	6	4 1/8	3 1/4	3 3/8	2 1/2 x 2 1/16	US	3 1/2	11.25
F5903	107-117	5.0 C.T.	6	6.3 C.T.	6	4 1/8	3 1/4	3 3/4	2 1/2 x 2 3/16	US	4 3/4	12.55
F5904	117	5.0 C.T.	3	7.5 C.T.	3.25	4 1/8	3 1/4	3 1/4	2 1/2 x 1 13/16	US	3	10.00
F5905	117	6.3 C.T.	3	6.3 C.T.	3	3	3 5/8	2 1/4	3	VC8	2 1/4	8.00

AUTOFORMER, ISOLATION, VIBRATOR



US2



US4



WB



US5



PC1



PC5



PC6

VARI-VOLT AUTOFORMERS

SEVEN STEPS—65/75/90/100/115/130/145 VOLTS INPUT TO 115 VOLTS OUTPUT*, 50-60 CYCLES

Item Number	Wattage Resis. Load	Dimensions Overall			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
		H	W	D				
J4400	150	5 1/8	3 1/2	5 1/2	2 3/4 x 4 1/4	US4	5 1/2	\$21.95
J4401	350	5 1/8	3 1/2	6 1/8	2 3/4 x 5	US4	8	27.90
J4402	500	5 1/2	3 7/8	6 7/8	3 x 5 13/16	US4	13 1/2	34.50
J4403	750	6 3/8	4 1/2	8 1/8	3 1/2 x 6 5/8	US4	19	52.50

* Or to other voltage levels within Vari-volt range.

STEP-DOWN AUTOFORMERS

Item Number	Primary Voltage	Secondary Voltage	Watts	Dimensions Overall			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
				H	W	D				
J4300	230	115	65	3 1/16	2 1/2	2 3/4	2 x 1 11/16	US2	2 3/4	\$ 9.50
J4301	230	115	100	3 1/2	3	3 1/8	2 1/4 x 2	US2	3 3/4	11.50
J4302	230	115	160	4	3 1/4	3 1/2	2 1/2 x 2 3/16	US2	5 1/4	13.75
J4303	230	115	250	4 1/4	3 1/2	3 7/8	2 3/4 x 2 7/8	US2	7	17.50
J4304	230	115	500	4 3/4	3 7/8	5 1/4	3 x 4 1/16	US2	13 3/4	22.50
J4305	230	115	1000	5 1/4	4 3/8	5 3/4	3 1/2 x 4 1/4	US2	19 1/2	45.00

ISOLATION TRANSFORMERS

K4600	115	115	50	4	3 1/4	3 1/4	2 1/2 x 1 5/16	US2	4 1/4	\$12.00
K4601	115	115	100	4 3/4	3 7/8	3 1/2	3 x 2 7/16	US2	6 1/2	18.50
K4602	115	115	150	4 3/4	3 7/8	3 3/4	3 x 2 7/16	US2	7	19.95
K4603	115	115	250	4 3/4	3 7/8	5 3/4	3 x 3 3/16	US2	12 1/2	32.50
*K4610	115	105 115 125	350	5 1/16	4 9/16	5 3/4	3 1/2 x 3 7/8	US5	16	30.00

VIBRATOR TRANSFORMERS—6 VOLTS D. C.

Item Number	D.C. Volts	A.C. Volts	Ma.	Dimensions Overall			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
				H	W	D				
V3800	165	330 CT	40	2 3/4	3 5/16	2 1/8	2 13/16	VC7	1 3/4	\$ 5.25
V3801	250	510 CT	40	2 3/4	3 5/16	2 1/8	2 13/16	VC7	1 3/4	6.00
V3802	265	520 CT	50	3 1/16	2 1/2	2 9/16	1 11/32 x 2 1/16	WB	2 1/2	6.50
V3803	255	510 CT	50	3 1/32	2 1/2	2 3/8	3 tapped holes	PC1	2 1/2	7.75
V3804†	280	560 CT	55	3 1/4	2 5/8	2 1/2	1 stud screw	PC6	2 3/4	11.95
V3805	245	500 CT	60	3 1/16	2 1/2	2 1/2	1 19/32 x 2	WB	2 1/8	7.00
V3806	235	480 CT	60	2 11/16	2 13/16	2 1/4	3 tapped holes	PC5	2 1/8	7.50
V3807	235	500 CT	70	3 1/32	2 1/2	2 3/8	3 tapped holes	PC1	2 1/2	8.50
V3808	225	475 CT	75	3 1/16	2 1/2	2 9/16	1 19/32 x 2 1/16	WB	2 1/2	9.00

† Has internal Hash Filter.

VIBRATOR TRANSFORMERS—12 VOLTS D. C.

Item Number	D.C. Volts	A.C. Volts	Ma.	Dimensions Overall			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
				H	W	D				
•V3900	150	170-0-170	40	2 3/8	2 7/8	2 3/8	2 3/8	VC6	1 1/2	\$ 5.25
•V3901*	265	260-0-260	55	3 1/4	2 5/8	2 1/2	1 Stud Screw	PC6	2 3/4	9.90
•V3902	225	245-0-245	60	2 1/4	2 3/16	2 5/8	1 3/4 x 2 3/16	HS	2	6.00
•V3903	260	270-0-270	60	2 1/4	2 3/16	2 5/8	1 3/4 x 2 3/16	HS	2	6.30
•V3904	275	285-0-285	70	3 1/4	2 1/4	2 3/8	3 tapped holes	PC1	2 1/2	8.75

*Has internal Hash Filter.

VIBRATOR TRANSFORMER—6 V. D. C. AND 115 V. A. C.

Item Number	D.C. Developed Volts	A.C. Filament Ma.	A.C. Volts	Amps.	Dimensions Overall			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
					H	W	D				
V3815	350	135	6.3 C.T.	4.75	4 5/8	3 3/4	4 1/2	3 x 3 3/16	US	10	\$16.85

*New item added to this catalog.

VARIVOLT, PLATE, MODULATION



N-202



N-303



HC3 to 8



VC3 to 8



US



US1



US3

VARIVOLT ISOLATION UNITS GIVING FINE (42 STEP) METERED ADJUSTMENT

Item Number	Output Range on 117 Volt Line (Pure Resist. Load)	Nominal Wattage	H	Dimensions Overall			Shipping Wt. Lbs.	List Price
		(Pure Resist. Load)		W	D			
N-202	95-145	500*	7¼	5⅞	8	25	\$62.50	
N-303	95-145	150*	5¼	6	4⅜	12	35.75	

* At 90 volts in or out, wattage rating reduced 30%.

PLATE SUPPLY

Showing continuous service D.C. Ma. using choke-input filter. For intermittent duty, current drain may be increased 25% above rated value. With capacitor-input filter, current drain should be decreased by 25%.

Item Number	Secondary A.C. Voltage	D.C. Ma.	Primary Volts	H	Dimensions			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
					W	D					
T3000	415-0-415	200	117	4	3¼	3½	2½ x 2⅝	US	5	\$11.90	
T3001	515-0-515	235	117	4⅞	3⅞	4⅞	2¾ x 2⅝	US	7	14.90	
T3002	600-500-0-500-600	250	117	4¾	4	4	3 x 3⅞	US	9½	18.50	
T3003	665-0-665	250	117	4¾	4	4⅞	3 x 3⅞	US	9⅞	18.90	
T3004	750-0-750	265	117	4¾	4	4⅞	3 x 3⅞	US	11½	21.50	
T3005	920-0-920	250	117	4¾	4	5	3 x 3⅞	US	12	22.75	
T3100	1200-0-1200	225	117	4¾	4	5⅞	3 x 4⅞	US3	13	24.90	
T3101	1200-0-1200	325	117	5⅞	4⅞	6⅞	3½ x 5⅞	US3	22¼	41.50	
T3102	1475-0-1475	250	117	5⅞	4⅞	6½	3½ x 5	US3	22⅓	39.75	
T3103	1790-0-1790	225	117	6	4½	6¾	3⅞ x 5	US3	25	45.00	
T3104	2065-0-2065	200	117	6	4½	6¾	3⅞ x 5⅞	US3	25	45.80	

MODULATION TRANSFORMERS SPECIFIC TYPE

Item Number	Impedance in Ohms		Pri. Ma.	Sec. Ma.	Watts	Dimensions			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
	Primary	Secondary				H	W	D				
M6300	10,000 C.T.	4000	32	50	5	1⅞	2⅞	1½	2⅞	HC5	¾	\$ 3.65
M6301	4500	8500	60	50	10	2	3¼	2	2⅞	HC6	1¼	5.10
M6302	10,000 C.T.	8000, 6500 5000, 3000	100	100	25	3¼	2⅞	2¾	2 x 1⅞	US	2¾	8.35
M6303	9000, 6900 C.T.	6250, 5000 4000, 3300	200 each half	300	175	4¾	4	6¼	3 x 3⅞	US1	11½	23.75

UNIVERSAL TYPE

Item Number	Adjustable Impedance†	Primary D.C. Ma.	Sec. D.C. Ma.	Watts	Dimensions			Mtg. Centers	Mtg. Type	Shipping Wt. Lbs.	List Price
					H	W	D				
M6500	2,000-20,000 ohms	100	100	15	3⅞	2⅞	2⅞	2 x 1⅞	US1	2½	\$13.75
M6501	2,000-20,000 ohms	150	150	30	4	3¼	3½	2½ x 2¼	US1	4¼	18.10
M6502	2,000-20,000 ohms	180	180	60	4	3¼	4¼	2½ x 2⅞	US1	6⅞	17.90
M6503	2,000-20,000 ohms	225	225	125	4¾	4	4½	3 x 3⅞	US1	9½	22.50

† Chart supplied giving 48 basic impedance ratios.

GRAMER**HALLDORSON**

Golden Fidelity

OUTPUT TRANSFORMER

(PART NUMBER H--4111)

FOR ULTRA-LINEAR APPLICATIONS

Every Gramer-Halldorson Golden Fidelity output transformer is registered by serial number.

A specific response curve throughout the range (10 to 100,000 cps) is provided with each unit. Certification of each unit is furnished with signatures of both Chief Engineer and Chief Inspector.

HIGH-FREQUENCY RANGE EXTENDED BY HIGHLY SPECIALIZED WINDING TECHNIQUES.

EXTREMELY LOW RANGE IS ASSURED THROUGH USE OF GRAIN-ORIENTED HIGH SILICON CORE MATERIAL.

Primary has screen taps for triode-tetrode operation.

Secondary is tapped for 4, 8, or 16 ohm voice coil.

ELECTRICAL RATING

PRI. IMPED.	SEC. IMPED.	FREQUENCY RESPONSE*	MAX. WATTS	MAX. PRI. DC/HALF
7400†	4/8/16	± 1/2 db 10 to 100,000 cps	40	100 MA.

†For Ultra-Linear Operation
*Normal in a Williamson Type Amplifier at 10 watt level.



GOLD-PLATED CASE

Each Gramer-Halldorson Golden Fidelity Output Transformer is unconditionally guaranteed against electrical defects.

SIZE: 4¼" x 4⅞" x 3⅝"

MTG. CENTERS: 2¾" x 3⅞"

SHIPPING WEIGHT: 7¼ lbs.

LIST PRICE: \$41.25

GRAMER*Halldorson***TRANSFORMER CORPORATION**

2734 NORTH PULASKI ROAD • CHICAGO 39, ILLINOIS