



# Miniature Transformers

## AUDIO, POWER AND TRANSISTOR TRANSFORMERS



TY-80 Series Type



SP



JAF



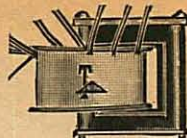
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S Type

### TOROIDAL TRANSISTOR POWER SUPPLY TRANSFORMERS

Epoxy molded, DC to DC. Exceed MIL-T-27A Grade 5, Class R specs.

Triad No.	Input Volts	Output† Volts	Ma	Size, Inches Dia.	Height	Wt. Lbs.	Net Each*
TY-68S†	12	250	65	1 3/4 sq.	1 11/16	2	\$ 5.50
TY-78	12.6	250	100	1 3/4	1 1/4	.35	14.72
TY-79	12.6	300	200	1 3/4	1 1/4	.35	15.34
TY-80	12.6	325	150	1 3/4	1	.35	15.94
TY-81	12.6	375	200	2	1	.50	15.19
TY-82	12.6	450	150	2	1	.50	15.27
TY-83	12.6	500	250	2 3/4	1 3/8	.85	18.34
TY-84	12.6	600	200	2 3/4	1 3/8	1.00	15.84
TY-85	12.6	600	350	2 3/4	2 1/8	2.00	28.20
TY-86	12.6	425	350	2 3/4	1 3/8	1.00	19.75
TY-88	28	250	80	1 3/4	1 1/4	.25	11.10
TY-89	28	300	100	1 3/4	1 1/4	.35	13.72
TY-90	28	325	200	1 3/4	1	.35	16.00
TY-91	28	375	200	2	1	.50	15.60
TY-92	28	450	200	2	1	.50	15.50
TY-93	28	500	250	2 3/4	1 3/8	.85	18.07
TY-94	28	600	200	2 3/4	1 3/8	1.00	15.96
TY-99	6	300	100	1 3/4	1	.35	13.45
TY-100	6	325	150	2	1	.50	20.62
TY-101	6	375	200	2 3/4	1 3/8	1.00	19.67
TY-102	6	450	150	2 3/4	1 3/8	1.00	18.90

### DC TO AC TRANSFORMER TRANSFORMERS

Open frame type. Secondary, 110-115-125 volts.

Triad No.	DC Pri.	Secondary W.	Cps.	Case	Size, Inches H. x W. x D.	Wt. Lbs.	Net Each*
TY-468	28	60	400	L	1 3/8 x 2 1/4 x 2	1/2	\$12.335
TY-462	12	60	400	L	1 3/8 x 2 1/4 x 2	1/2	16.32
TY-75A	12	115	60	A	3 3/8 x 2 1/4 x 2 3/8	5	12.82
TY-76A	12	60	60	A	3 3/8 x 2 1/4 x 2 3/8	3	9.60

### "RED SPEC" TRANSISTOR TRANSFORMERS

Size: 0.31" x 0.41" x 0.465" h. Weight, 1/10 oz.

Triad No.	Applica-tion	Impedance, Ohms		Net Each*
		Primary	Secondary	
SP-4	Input	200000 CT	1000 CT	\$8.17
SP-5	Input	50000 CT	1000 CT	8.12
SP-7	Input	200000 CT	1000	7.50
SP-11	Interstage	25000	1000	7.00
SP-13	Interstage	25000 CT	1000 CT	7.22
SP-15	Interstage	10000 CT	1500 CT	7.48
SP-20	Driver	10000 CT	1200 CT	7.27
SP-21	Driver	10000 CT	2000 CT	7.48
SP-22	Driver	10000	2000 CT/500†	7.77
SP-29	Driver	10000 CT	500 CT	7.50
SP-32	Output	500	50	6.34
SP-33	Output	1000	50	6.82
SP-34	Output	600	3.2	6.55
SP-35	Output	1200	3.2	6.65
SP-36	Output	10000	3.2	6.32
SP-42	Output	150 CT	12	7.00
SP-43	Output	300 CT	12	6.50
SP-44	Output	600 CT	12	7.00
SP-46	Output	1000 CT	12	7.12
SP-47	Output	1500 CT	12	7.38
SP-48	Output	7500 CT	12	6.88
SP-49	Output	300 CT	600	6.87
SP-50	Output	500 CT	600	6.28
SP-51	Output	900 CT	600	8.10
SP-52	Output	1500 CT	600	6.88
SP-59	Output	120 CT	3.2	7.00
SP-60	Output	320 CT	3.2	6.67
SP-61	Output	600 CT	3.2	6.84
SP-62	Output	800 CT	3.2	6.28
SP-63	Output	1200 CT	3.2	6.43
SP-64	Output	1600 CT	3.2	7.50
SP-65	Output	8000 CT	3.2	7.68
SP-66	Output*	10000 CT	10000 CT	6.90
SP-67	Output*	1000 CT	600 CT	7.95
SP-68	Output*	10000	10000 CT/2500†	7.58
SP-69	Output*	600	600 CT/150†	5.34
SP-106	Choke	6 hy at 2 ma	.....	5.90
SP-107	Choke	1.25 hy at 2 ma	.....	5.90
SP-108	Choke	3.5 hy at 2 ma	.....	4.88
SP-117	Choke	.9 hy at 2 ma	.....	5.68
SP-118	Choke	.3 hy at 4 ma	.....	4.48
SP-128	Choke	.1 hy at 5 ma	.....	.84
SP-310	Magnetic Shielding Case			

### TRANSCEIVER TRANSFORMERS, VOICE FREQUENCY

Triad No.	Application	Pri. Ohms	Sec. Ohms	Size, Inches H. x W. x D.	Net Each*
A-21X	Mike or plate to grid	100	100000	1 3/8 x 2 1/4 x 1 1/4	\$2.77
A-23X	Tube to line or phones	10000	50, 2000	1 3/8 x 2 3/8 x 1 3/8	2.85

\*Isolation. †Split secondary. ‡F.W. bridge. #Open frame type.

### OUTPUT AND DRIVER TRANSISTOR TRANSFORMERS

Triad No.	Impedance, Ohms		Output, Watts	Net Each*
	Primary	Secondary		
TY-29X	24 CT (500 ma bal)	8/4	8	\$3.68
TY-31X	200 CT (50 ma bal)	8/4	2	2.73
TY-48X	100 CT (40 ma)	8/8/4	2.5	4.50
TY-30X	100 CT (100 ma bal)	16/4	4	2.98
TY-53X	200 CT (10 ma)	400 CT	6	3.67
TY-61X	100 (100 ma)	100 CT	4	2.72
TY-63X	48 CT (275 ma bal)	16/8	8	3.82
TY-64X	32 CT (575 ma bal)	16/8/4	10	5.95
TY-65Z	32 CT (575 ma bal)	6K/4K/3K	10	2.83
TY-66A	6 CT (5 a.)	6K/4K/3K	40	8.94
TY-67A	6 CT (5 a.)	16/8/4	40	9.24

### MIDGET AUDIOS—HERMETICALLY SEALED

All units have 45 db shielding. Std. threaded stud mounting plus optional bracket (1 1/4" mtg.). Conform to MIL specs.

Triad No.	Impedance, Ohms		Frequency Response†	Net Each*
	Primary	Secondary		
JO-13*	600/250/50	50000	60-15000	\$13.38
JO-23	600/250/50	250000	60-15000	13.42
JO-33	600/250/50	60000 CT	50-15000	12.04
JO-53	30/12/4	50000	50-12000	13.92
JO-11	15000	60000	50-15000†	13.32
JO-12	15000	60000 CT	50-15000†	13.74
JO-13	15000*	95000 CT	50-15000†	13.74
JO-21	15000	600/250/50	20-20000†	13.74
JO-22	15000*	600/250/50	100-10000†	13.74
JO-23	20000 CT	600/250/50	40-30000†	13.92
JO-31*	600/250/50	600/250/50	40-20000†	13.98
JO-101	50 hys at 2 ma coupling reactor 12.60			

### MINIATURE "TRIJET" AUDIOS—UNCASED

Open frame construction, 1 1/4" w. x 3/4" d. x 3/8" h. except T-41X and T-42X, 1 1/4" w. x 1 1/4" d. x 3/8" h.

T-1X*	600/250/50	50000	60-15000	\$4.98
T-2X*	600/250/50	250000	100-15000	3.95
T-3X	600/250/50	60000 CT	60-15000	4.55
T-5X*	30/12/4	50000	50-15000	4.07
T-11X	15000	50000	60-15000†	3.57
T-12X	15000	60000 CT	60-15000†	3.88
T-13X	15000*	95000 CT	250-15000†	3.72
T-14X*	200	500000	200-10000†	4.00
T-15X	15000	1 meg.	150-15000†	4.11
T-20X	15000	600/250/50	60-15000†	3.68
T-21X	30000	50	100-15000†	3.45
T-22X	15000*	600/250/50	100-50000†	3.45
T-23X	20000 CT	600/250/50	40-30000†	4.48
T-24X	10000 CT	2000 CT	50-20000†	3.72
T-25X	12000 CT†	600 CT/150‡	50-16000†	3.36
T-26X	50000 CT†	600 CT/150‡	100-15000†	3.40
T-31X*	600/250/50	600/250/50	50-15000†	4.23
T-32X*	1500 CT†	600 CT/150‡	50-20000†	3.45
T-33X*	5000 CT	5000 CT	60-15000†	3.40
T-34X	500 CT	500 CT/125‡	50-20000†	3.19
T-35X	600 CT	2000 CT/500‡	50-20000†	3.68
T-41X	1000 (10 ma)	200 CT	20-15000	3.90
T-42X	9800 (2 ma)	15	200-50000	3.90
T-101X	50 hys at .75 ma audio choke			
T-102X	6 or 4 hy, 3 or 6 ma coupling reactor 2.38			

### MINIATURE JAF AUDIOS—HERMETICALLY SEALED

"Trialloy" hermetically sealed meet MIL specs; 45 db shielding.

JAF-1*	600/250/50	50000	60-15000	\$13.21
JAF-2*	600/250/50	250000	100-15000	13.74
JAF-3	600/250/50	60000 CT	60-15000	13.74
JAF-5*	30/12/4	50000	50-15000	12.64
JAF-11	15000	50000	60-15000†	13.21
JAF-12	15000	60000 CT	250-15000†	13.21
JAF-13	15000*	95000 CT	250-15000†	13.74
JAF-14*	200	1/2 megohm	350-5000†	13.74
JAF-15	15000	1 megohm	300-3000†	13.21
JAF-21	15000	600/250/50	60-15000†	13.74
JAF-22	15000*	600/250/50	350-7000†	13.21
JAF-23	20000 CT	600/250/50	60-15000†	13.74
JAF-24	10000 CT	2000 CT	50-20000†	14.30
JAF-25	12000 CT†	600 CT/150‡	50-15000†	14.15
JAF-26	50000 CT*	600 CT/150‡	100-15000†	14.30
JAF-31*	600/250/50	600/250/50	60-15000†	14.18
JAF-32	1500 CT†	600 CT/150‡	50-20000†	14.18
JAF-33*	5000 CT	5000 CT	60-15000†	14.18
JAF-34	500 CT	500 CT/125‡	50-20000†	14.10
JAF-35	600 CT	2K CT/500‡	50-20000†	14.10
JAF-101	50 hys at .75 ma coupling reactor			
JAF-102	6 or 4 hys at 3 or 6 ma coupling reactor 12.70			

\*Designed for 3 ma in primary except: †2 ma; ‡.5 ma (low freq. results from DC in primary of all other units). †Power output 1 mW except: †10 mW; ‡25 mW; †20 mW; †1 1/2 mW; †1/2 mW; †1/4 mW; †1/8 mW; †1/16 mW; †1/32 mW; †1/64 mW; †1/128 mW; †1/256 mW; †1/512 mW; †1/1024 mW; †1/2048 mW; †1/4096 mW; †1/8192 mW; †1/16384 mW; †1/32768 mW; †1/65536 mW; †1/131072 mW; †1/262144 mW; †1/524288 mW; †1/1048576 mW; †1/2097152 mW; †1/4194304 mW; †1/8388608 mW; †1/16777216 mW; †1/33554432 mW; †1/67108864 mW; †1/134217728 mW; †1/268435456 mW; †1/536870912 mW; †1/1073741824 mW; †1/2147483648 mW; †1/4294967296 mW; †1/8589934592 mW; †1/17179869184 mW; †1/34359738368 mW; †1/68719476736 mW; †1/137438953472 mW; †1/274877906944 mW; †1/549755813888 mW; †1/1099511627776 mW; †1/2199023255552 mW; †1/4398046511104 mW; †1/8796093022208 mW; †1/17592186044416 mW; †1/35184372088832 mW; †1/70368744177664 mW; †1/140737488355328 m



# Audio Transformers



## SUBMINIATURE AUDIO TRANSFORMERS

Can-type case 1/4" dia., 1/8" x long; wire leads. Hermetically sealed.

Triad No.	Application	Impedance, Ohms		Net Each*
		Primary†	Secondary	
JZ-1	Mike or line to grid	600/250/50	60000	\$11.79
JZ-5	Mike or VC to grid	30/12/4	50000	12.13
JZ-7	Mike or VC to xslstor	30/12/4	1000	11.79
JZ-13	Plate to sgle. or p-p grid.	15000 (1 ma)	135000 CT	11.79
JZ-15	Transistor interstage	20000 (.5 ma)	1200/600/100	11.79
JZ-25	Plate or xslstor to xslstor or line	10000 (1 ma)	200	11.47
JZ-26	Xslstor to line or xslstor	1000 (5 ma)	50	11.47

## MINIATURE AUDIO TRANSISTOR TRANSFORMERS

Triad No.	Impedance, Ohms		Output, Watts	Net Each*
	Primary†	Secondary		
TY-23X	50000 (.5 ma)	500 CT	.1	\$5.00
TY-24X	50000 (.5 ma)	3000 CT	.2	3.23
TY-25X	100000 (.5 ma)	200 CT	.2	6.22
TY-26X	100000 (.5 ma)	3000 CT	.2	5.22
TY-27X	500 CT (2 ma)	500 CT	.01	4.12
TY-28XT	500 CT (2 ma)	200 CT	.01	4.28
TY-32X	200 CT (2 ma)	2000 CT	.2	2.95
TY-33X	400 CT (5 ma)	16/8/4	.2	3.90
TY-34X	400 CT (5 ma)	2000 CT	.2	3.12
TY-35X	500 CT (2 ma)	150 CT	.1	3.17
TY-36X	2000 (2 ma)	1500 CT	.2	3.33
TY-37X	2000 CT (4 ma)	8000 CT	.2	3.99
TY-38X	3000 CT (4 ma)	1000 CT	.2	3.99
TY-39X	4000 CT	16/8/4	.2	5.15
TY-40X	5000 (1 ma)	200 CT	.1	3.75
TY-41X	16000 (1 ma)	4000	.1	3.84
TY-42X	20000 (.5 ma)	8/4	.1	4.40
TY-43X	20000 (.5 ma)	800 CT	.1	4.23
TY-44X	1000 (10 ma)	16/8/4	.2	4.78
TY-45X	500 CT (5 ma)	16/8/4	.2	4.78
TY-46X	100 (100 ma)	1000 CT	1.0	2.45
TY-47X	2000 CT (10 ma)	16/8/4	.2	4.67
TY-49X	500 CT (12 ma)	5000 CT	1.0	3.28
TY-50X	125000	2000 CT	.04	6.28
TY-51X	2000 CT (10 ma)	200 CT	.1	4.85
TY-52X	20000 CT (1 ma)	2000 CT	.2	5.35
TY-54X	15000 (1.5 ma)	200 CT	.2	5.00
TY-55X	2000 CT (2 ma)	500 CT	.2	4.74
TY-56X	10000 (1 ma)	2000 CT	.2	4.12
TY-57X	250 CT (10 ma)	16/8/4	.2	4.55
TY-58X	125 CT (15 ma)	8/4	.2	4.07
TY-59X	5000 CT (1 ma)	50000 CT	.2	5.83
TY-60X	200000	1000	.1	4.50
TY-62X	10000 (2 ma)	4	.1	3.55

## SUBMINIATURE AUDIO TRANSFORMERS

Open frame construction. Type XT, 1/4" x 1/8" x 1/8". All others, 1/4" x 1/2" x 1/8". Power output, 1 mw.

Triad No.	Impedance, Ohms		Frequency Response	Net Each*
	Primary†	Secondary		
TZ-1	600/250/50	60000	70-20000	\$4.62
TZ-2XT	200 CT	200000	100-20000	5.83
TZ-5	30/12/4	50000	70-20000	4.98
TZ-7	30/12/4	1000	40-20000	3.95
TZ-8	15000 (1 ma)	135000 CT	70-15000	6.17
TZ-15	20000 (.5 ma)	1200/600/100	70-15000	5.00
TZ-17XT	10000 CT	2000 CT	70-15000	4.60
TZ-24XT	25000 CT	500 CT	100-15000	4.98
TZ-25	10000 (1 ma)	200	70-20000	4.27
TZ-26	1000 (5 ma)	50	100-10000	3.67
TZ-28	600	50	40-60000	3.67
TZ-29XT	10000 CT	10000 CT	70-15000	4.77
TZ-32XT	1500 CT	600 CT/150*	70-20000†	5.02
TZ-103XT	1 or 4 hy.	Coupling Reactor		3.00

## DRIVER TRANSFORMERS

Triad No.	Impedance		Freq. Resp.	Size, Inches H. x W. x D.	Net Each*
	Primary†	Secondary			
A-81X	15000 15 ma	8500 CT	300- 3000	1 1/4 x 2 1/4 x 1 1/4	\$2.62
A-83X	7000 40 ma	15800 CT	70- 7000	1 1/2 x 2 1/2 x 1 1/2	2.58
A-85X	7000 40 ma	4000 CT	50- 10000	1 1/2 x 3 1/2 x 1 1/4	3.06
A-89A	4K/8K 100 ma	4.4K/8.8K	50- 10000	3 1/2 x 2 1/2 x 2 3/8	6.33
TY-61X	100 100 ma	100 CT	50- 10000	1 1/2 x 2 1/2 x 1 1/2	2.72

\*Split winding. †Power output, 10 mw. ‡Ma ratings are DC.

## ★ QUANTITY DISCOUNTS

1-9, Net; 10-24, 10%; 25-49, 19%; 50-99, 25%; 100-249, 28 1/2%; 250 up, 32 1/2%.

Case Types: Suffix letter(s) of Triad No. indicates case style. Type of transformer is indicated by prefix letter(s). Case dimensions not listed in individual sections may be found on another page of Triad listings.

## HIGH FIDELITY OUTPUT TRANSFORMERS

Tube to Line or Voice Coil

Triad No.	Impedance, Ohms		Output Watts	Case Size, Inches H. x W. x D.	Wt., Lbs.	Net Each*
	Primary	Secondary				
S-34X	4000 CT	32/16/8	7.5	2 1/2 x 3 1/2 x 1 1/2	1.5	\$ 4.73
S-31A	8000 CT	16/8/4	15	3 1/2 x 2 1/2 x 3 3/8	3.8	6.85
S-32A	8000 CT	500/250/125	15	3 1/2 x 2 1/2 x 3 3/8	3.8	8.82
S-142A	8000 CT†	16/8/4	15	3 1/2 x 2 1/2 x 3 3/8	3.75	11.17
S-35A	5000 CT	16/8/4	20	3 1/2 x 2 1/2 x 3 3/8	4.3	8.32
S-36A	5000 CT	500/250/125	20	3 1/2 x 2 1/2 x 3 3/8	4.25	9.32
S-144A	8000 CT†	16/8/4	25	3 1/2 x 2 1/2 x 4 1/4	6	15.24
S-146A	6600 CT†	16/8/4	25	3 1/2 x 2 1/2 x 4 1/4	5.75	14.84
S-148A	10000 CT†	16/8/4	25	3 1/2 x 2 1/2 x 4 1/4	6	13.69
S-149A	3300 CT†	16/8/4	50	4 1/2 x 3 1/2 x 4 1/4	8	22.62
S-156A	6600 CT† 1650 CT†	16/8/4	30	3 1/2 x 2 1/2 x 3 3/8	5	16.50
S-42A	4500 CT	16/8/4	50	4 1/2 x 3 1/2 x 4 1/4	8.25	15.19
S-152A	4000 CT†	16/8/4	65	4 1/2 x 3 1/2 x 4 1/4	9.75	19.05
S-154A	4000 CT†	16/8/4	70	4 1/2 x 3 1/2 x 4 1/4	12.5	23.82
S-158A	4500 CT† 1000 CT†	16/8/4	100	5 1/2 x 4 1/2 x 5 1/4	14.8	32.74
SR-45Z*	4000/2000/ 1000/500	16/8/4	10	2 1/2 x 3 1/2 x 2 1/2	1.75	6.79
S-46A*	2000/1000/ 500/250	16/8/4	20	3 1/2 x 2 1/2 x 3 3/8	4	9.67

†Williamson type circuit may be used. Taps on primary for proper screen operation. \*70 v. line autformer.

## HI-FI STEREO SHIELDED OUTPUT TRANSFORMERS

Baked vacuum varnished structure. Frequency response, = 2 db, 20-20,000 cps. High open circuit inductance; low leakage. = 20 db, 10-15 w. (SX-203, 5-7 w.). Sec. Imped., 4/8/16 ohms. Test, 2000 v. rms (SX-201-SX-204, 1500 v. rms). Size, 3" w. x 2 1/2" d. x 2 1/2" h. Weight, 2 1/2 lbs.

Williamson Circuit			Push-Pull Operation		
Triad No.	Pri. Imp.	Net*	Triad No.	Pri. Imp.	Net*
SX-201	3300 CT	\$7.44	SX-204	5000 CT	\$7.44
SX-202	4500 CT	7.41	SX-205	6600 CT	7.50
SX-206	6600 CT	7.59	SX-208	8000 CT	7.50
SX-207	8000 CT	7.62	SX-203*	5000	7.26

\*Single ended operation.

## UNIVERSAL OUTPUT TRANSFORMERS

Single or Push-Pull Tubes to Voice Coil

Triad No.	Pri. Imped. Kohms	Pri. DC Ma		Output Watts	Wt., Lbs.	Net Each*
		P-P	Single			
S-51X*	4-14	70	35	5	.45	\$3.77
S-52X*	4-24	50	25	4	.45	4.38
S-53X*	4-14	80	40	8	.6	3.93
S-54X†	1.5-5	...	70	8	.6	4.52
S-55†	4-14	100	...	10	1	4.12
S-55X†	4-14	100	...	10	1	4.17
S-56†	1.5-6	...	85	12	1.6	5.27
S-57†	4-14	110	...	15	1.6	5.93
S-59†	1.5-4	175	...	15	1.6	5.72
S-61†	4-12	125	...	20	1.8	5.93
S-62X*	2-10	60	30	2	.21	4.17
S-63X*	1.5-7	100	50	6	.45	3.05

\*Single or p-p plates. †Single plate. ‡P-p plates.

## INTERSTAGE TRANSFORMERS, PLATE TO GRID

Triad No.	Frequency Resp.	Impedance, Ohms		Turns Ratio	Size, Inches H. x W. x D.	Net Ea.*
		Pri.	Sec.			
A-31X	100-10000	10000	90000 CT	1:3	1 1/2 x 2 1/2 x 1 1/2	\$2.73
A-33X	70-10000	10000	90000 CT	1:3	1 1/2 x 2 1/2 x 1 1/2	3.88
A-42Z	70-10000	15000 CT	135000 CT	1:3	1 1/2 x 3 1/2 x 1 1/2	3.60
		15000 CT	33750	1:1.5		
		3750	135000 CT	1:6		
A-39A	50-10000	20000 CT	45000 CT	1:1.5	2 1/2 x 2 1/2 x 2 1/2	6.22

## LOW LEVEL OUTPUT TRANSFORMERS

Triad No.	Freq. Resp.	Impedance, Ohms		Size, Inches H. x W. x D.	Net Each*
		Pri.	Sec.		
A-51X	200-8000	7000	50	1 1/2 x 2 1/2 x 1 1/4	\$2.22
A-53X	70-10000	18000 CT	600/250/50	1 1/2 x 2 1/2 x 1 1/4	3.18
S-58X	100-10000	600†/150*	800†/150*	1 1/2 x 2 1/2 x 1 1/4	2.50

\*Split windings. †Center tapped.

## MATCHING TRANSFORMERS—25 OR 70.7 VOLT LINE

Triad No.	Matching Imped., Ohms		Audio Watts	Size, Inches H. x W. x D.	Net Each*
	Primary	Sec.			
S-129Z	20.8 CT (25-70 v.)	166 CT	30	3 1/2 x 3 3/8 x 2 1/4	\$4.95
	166 CT (70-25 v.)	20.8 CT			
S-130Z	62.5 CT (25-70 v.)	500 CT	10	2 1/2 x 2 3/8 x 1 1/4	3.23
	500 CT (70-25 v.)	62.5 CT			

## OUTPUT TRANSFORMERS

25 Volt Line to Voice Coil

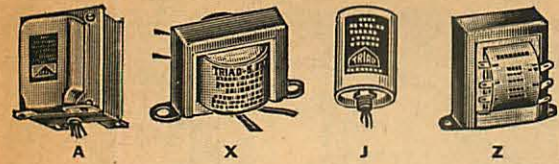
Triad No.	Impedance, Ohms		Output Watts	Size, Inches H. x W. x D.	Net Each*
	Primary	Secondary			
S-131X	1250/625/ 312*	8/4	2	1 1/2 x 2 1/2 x 1 1/2	\$2.82
S-132X	1000/500/ 250/125*	16/8/4	5	1 1/2 x 2 1/2 x 1 1/2	2.93
S-133Z	500/250/ 125/62.5*	16/8/4	10	2 1/2 x 3 1/2 x 2	5.90

\*Isolation.





# Audio Transformers



## LOW LEVEL AUDIO

Single-hole mounting, permits rotation for minimum hum pickup. Alloy shielding for a 40-60 db reduction in hum pickup (60-80 db on A-11J and A-12J), and flexible leads. Units have a wide frequency range. Input units electrostatically and magnetically shielded. Circuit diagrams permanently affixed to case.

Triad No.	Application	Primary Ohms	Net Each*
A-9J†	Line or mike to grid	600/250/50	\$ 8.67
A-10J†	Bal. line or mike to grid	600 CT/150*	7.68
A-11J†	Line or mike to grid	600/250/50	10.90
A-12J†	Bal. line or mike to grid	600 CT/150*	9.52
A-13J†	Line to line or transistor	600/300/200 CT/110/50*	10.12
A-40J	Plate to 1 or 2 grids	15000	8.44
A-41J	Tube to 1 or 2 grids	15000	9.15
A-50J	P-P plates to voice coil	10000 CT	6.55
A-52J	Line or transistor to line or transistor	500 CT/125*	7.73
A-55J	Plate to line	15000	8.00
A-56J	Line or transistor to VC	500 CT/125*	7.15
A-57J	Line or transistor to line	600/250/50	8.28
A-58J	P-P plates or transistors to line or transistors	10000 CT/2500*	7.73
A-64J	Line or transistor to transistor	100 CT/25*	5.95
A-65J	Sgl or p-p plates to bal. line	15000 CT	8.89
A-66J	Plate to line	15000	8.94
A-67J	Bal. line to bal. line	600 CT/150*	8.90
A-68J	Sgl or p-p plates to bal. line	15000 CT	9.07
A-69J	P-P plates or bridging to line	25000 CT/6250*	8.34
A-70J	Line or transistor to line or transistor	500 CT/125*	7.15
A-77J	Audio choke, 250 hys., 5 ma DC; 62.5 hys., 10 ma DC	1 or 2 transistor to bal. line	8.90
A-78J	1 or 2 transistor to bal. line	2000 CT	8.90
A-79J	Transistor to p-p transistors or line	1000	8.60

Note: Frequency response of all units is 30-15,000 cps except, A-66J, A-68J, 40-15,000 cps; and A-79J, 20-15,000 cps. \*Split winding. †Static shield.

## INPUT TRANSFORMERS, LINE OR MIKE TO GRID

Triad No.	Application	Pri. Ohms	Turns Ratio	Size, Inches H. x W. x D.	Net Each*
A-1X	Line or mike to grid	100	1:31.4	1 1/4 x 2 1/4 x 1 1/4	\$2.23
A-3X	Line or mike to grid	400*	1:22.1	1 1/4 x 2 1/4 x 1 1/4	2.62
A-4X	Line to single grid	†	1:12	1 1/4 x 2 1/4 x 1 1/4	2.67
A-5X	Mike or line to sgl. or p-p grid	100	1:83.3	1 1/4 x 2 1/4 x 1 1/4	2.97
A-6X	Intercom-spkr. VC to grid	8/4	1:79.6	1 1/4 x 2 1/4 x 1 1/4	2.57
A-7X	to grid	3.2-4	1:124	1 1/4 x 1 1/4	4.78

\*Center tapped. †500 CT/333/200 CT/125/67.5 CT/50.

## PLUG-IN INPUT TRANSFORMERS

Highly magnetic shielded for coupling low-Z mikes or magnetic heads to amplifier input. Nos. A-200P and A-202P have 9-prong plugs for commercial amplifiers; HS-273P has 8-prong plug.

Triad No.	Imped., Ohms Pri.†	Sec.	Freq. Resp.	Shielding	Size, In. H. x W. x D.	Net Each*
A-200P	200/50 CT	36,000	50-15,000	70 db	2 1/4 x 1 1/4	\$15.00
A-202P	200/50 CT	36,000	30-15,000	90 db	2 1/4 x 1 1/4	20.85
HS-273P	200/50 CT	80,000	30-20,000	70 db	1 3/4 x 1 3/8	17.10
A-210P*	1:1 ratio, 0 dbm		20-20,000	45 db	2 1/4 x 1 1/4	10.86

\*Stereo isolation transformer; primary and secondary impedance, 27K ohms. †Split winding except A-210P.

## REPLACEMENT PUSH-PULL OUTPUT TRANSFORMERS

Push-pull tubes to voice coil, 3-4 ohms.

Triad No.	Primary Impedance	Total DC Ma	Output Watts	Size, Inches H. x W. x D.	Net Each*
S-39X	12000 CT	60	3-4	1 1/4 x 2 1/4 x 1 1/4	\$2.40
S-64X	6000 CT	80	4-6	1 1/4 x 2 1/4 x 1 1/4	2.40
S-15X	10000 CT	70	7-10	1 1/4 x 2 1/4 x 1 1/4	2.73
S-19Z	10000 CT	100	10-14	2 1/4 x 2 1/4 x 2	3.12
S-68Z	3400 CT/3000 CT/3800 CT	180	15-18	2 1/4 x 3 1/4 x 2	3.78
S-69Z	5000 CT	120	15-18	2 1/4 x 3 1/4 x 2	5.35
S-21A	8000 CT	110	15-18	2 1/4 x 2 1/4 x 2 1/4	4.72
S-21Z	8000 CT	110	15-18	2 1/4 x 3 1/4 x 2	4.05

## LINE OUTPUT TRANSFORMERS

### Tube to Voice Coil and Line

Triad No.	Impedance, Ohms Primary	Secondary	Audio Watts	Size, Inches H. x W. x D.	Net Each*
S-27A	2500	500/16/8/4	8	2 1/4 x 2 1/4 x 2 1/4	\$5.85
S-28X	7500	500/16/8/4	5	1 1/4 x 2 1/4 x 1 1/4	3.90
S-29X	5000	500/16/8/4	5	1 1/4 x 2 1/4 x 1 1/4	3.50
S-22A	5000 CT	500/16/8/4	15	2 1/4 x 2 1/4 x 2 1/4	6.07
S-24A	8000 CT	500/16/8/4	15	2 1/4 x 2 1/4 x 2 1/4	6.77
S-60A	6600 CT	500/250/16/8/4	35	3 1/4 x 3 1/4 x 3 1/4	10.24

### Line to Voice Coil

Triad No.	Impedance, Ohms Primary	Secondary	Audio Watts	Size, Inches H. x W. x D.	Net Each*
S-23X*	50	3.2-4	1	1 1/4 x 2 1/4 x 1 1/4	\$ 2.16
S-26X*	500/50	3.2-4	4	1 1/4 x 2 1/4 x 1 1/4	2.16
S-65X	500	8/4	5	1 1/4 x 2 1/4 x 1 1/4	2.07
S-66X*	500	16/8/4	3	1 1/4 x 2 1/4 x 1 1/4	2.07
S-76Z	250/125/62.5/31	16/8/4	10	2 1/4 x 3 1/4 x 2 1/4	3.03
S-77U‡	500 CT/125	32/16/8/4/2	30	3 1/4 x 2 1/4 x 4 1/4	11.32

### 70.7 Volt Line to Voice Coil

Triad No.	Impedance, Ohms Primary	Secondary	Audio Watts	Size, Inches H. x W. x D.	Net Each*
S-70Z*	16K/8K/4K/2K/1K	8/4	5	1 1/4 x 2 1/4 x 1 1/4	\$ 3.83
S-71Z*	4K/2K/1K/500	16/8/4	10	1 1/4 x 2 1/4 x 1 1/4	5.10
S-25Z*	4K/2K/1K/500	8/4	10	2 1/4 x 2 1/4 x 1 1/4	4.52
SR45Z*	4K/2K/1K/500	16/8/4	10	2 1/4 x 3 1/4 x 2 1/4	6.79
SR74K†	4K/2K/1K/500	16/8/4	10	3 1/4 x 2 1/4 x 3 1/4	6.45
S-72Z*	2K/1K/500/250	16/8/4	20	2 1/4 x 2 1/4 x 1 1/4	4.20
S-46A*	2K/1K/500/250	16/8/4	20	3 1/4 x 2 1/4 x 3 1/4	9.67
S-75K†	2K/1K/500/250	16/8/4	20	4 1/4 x 3 1/4 x 4 1/4	11.32
S-78Z†	4K/2K/1K/500	16/8/4	10	1 1/4 x 2 1/4 x 1 1/4	4.85
S-79Z†	2K/1K/500/250	16/8/4	20	2 1/4 x 2 1/4 x 1 1/4	5.32
S-47Z†	10K/5K/2.5K/1250/625	16/8/4	8	1 1/4 x 2 1/4 x 1 1/4	3.84
S-73X†	16K/8K/4K/2K/1K	16/8/4	5	1 1/4 x 2 1/4 x 1 1/4	4.00

\*Autoformer. †Weatherproof autoformer. ‡Isolation transformer. §Split winding.

## REPLACEMENT OUTPUT TRANSFORMERS

### Single Tube to Standard Voice Coil (3-4 ohms)

Triad No.	Primary Impedance	DC Ma	Audio Watts	Size, Inches H. x W. x D.	Net Each*
S-40X	14000	5.5	.25	1 1/4 x 1 1/4 x 1 1/4	\$4.60
S-37X	25000	4	.25	1 1/4 x 1 1/4 x 1 1/4	5.07
S-20X	2000	50	2-3	1 1/4 x 2 1/4 x 1 1/4	1.85
S-20Z	2000	50	2-3	1 1/4 x 1 1/4 x 1 1/4	1.85
S-12X	2500	50	2-3	1 1/4 x 2 1/4 x 1 1/4	1.90
S-12Z	2500	50	2-3	1 1/4 x 1 1/4 x 1 1/4	1.90
S-16X	3000/5% tap	50	2-3	1 1/4 x 2 1/4 x 1 1/4	2.02
S-14Z	4000	50	2-3	1 1/4 x 1 1/4 x 1 1/4	1.98
S-6X	5000	35	2-3	1 1/4 x 2 1/4 x 1 1/4	1.98
S-47X	5000	35	2-3	1 1/4 x 1 1/4 x 1 1/4	2.17
S-48X	8500	35	2-3	1 1/4 x 2 1/4 x 1 1/4	2.00
S-48Z	6500	35	2-3	1 1/4 x 1 1/4 x 1 1/4	2.02
S-8X	8000	30	2-3	1 1/4 x 2 1/4 x 1 1/4	1.90
S-8Z	8000	30	2-3	1 1/4 x 1 1/4 x 1 1/4	2.02
S-11X	10000	30	2-3	1 1/4 x 2 1/4 x 1 1/4	1.98
S-11Z	10000	30	2-3	1 1/4 x 1 1/4 x 1 1/4	2.10
S-38X	16000	15	2-3	1 1/4 x 2 1/4 x 1 1/4	2.15
S-38Z	16000	15	2-3	1 1/4 x 1 1/4 x 1 1/4	2.15
S-13X	25000	10	2-3	1 1/4 x 2 1/4 x 1 1/4	2.27
S-13Z	25000	10	2-3	1 1/4 x 1 1/4 x 1 1/4	2.27
S-2X	2000	55	3-5	1 1/4 x 2 1/4 x 1 1/4	2.46
S-1X	2500	60	3-5	1 1/4 x 2 1/4 x 1 1/4	1.98
S-30X	3000	60	3-5	1 1/4 x 2 1/4 x 1 1/4	2.10
S-41X	4000	50	3-5	1 1/4 x 2 1/4 x 1 1/4	2.05
S-41Z	4000	50	3-5	1 1/4 x 1 1/4 x 1 1/4	2.05
S-3X	5000	40	3-5	1 1/4 x 2 1/4 x 1 1/4	2.38
S-49X	6500	35	3-5	1 1/4 x 2 1/4 x 1 1/4	2.12
S-7X	7500	30	3-5	1 1/4 x 2 1/4 x 1 1/4	2.02
S-17X	10000	30	3-5	1 1/4 x 2 1/4 x 1 1/4	2.10
S-50X	2500	60	4-6	1 1/4 x 2 1/4 x 1 1/4	2.27
S-67X	3200	60	4-6	1 1/4 x 2 1/4 x 1 1/4	2.27
S-18X	8000	45	4-6	1 1/4 x 2 1/4 x 1 1/4	2.33
S-18Z	8000	45	4-6	1 1/4 x 2 1/4 x 1 1/4	2.35
S-10X	10000	45	4-6	1 1/4 x 2 1/4 x 1 1/4	2.23
S-4X	3000	70	5-8	1 1/4 x 3 1/4 x 1 1/4	2.67
S-5X	5000	50	5-8	1 1/4 x 3 1/4 x 1 1/4	2.67
S-9Z	5000	50	5-8	2 1/4 x 2 1/4 x 1 1/4	2.72
S-9X	7500	50	5-8	1 1/4 x 3 1/4 x 1 1/4	2.72
S-9Z	7500	50	5-8	2 1/4 x 2 1/4 x 1 1/4	2.62

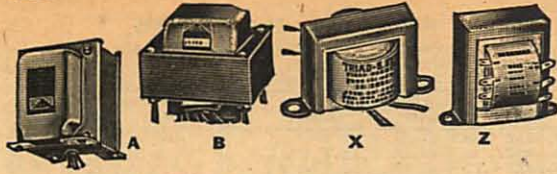
### ★ QUANTITY DISCOUNTS

1-9, Net; 10-24, 10%; 25-49, 19%; 50-99, 25%; 100-249, 28 3/4%; 250 up, 32 3/4%.





# Standard Series Transformers



## COMBINED PLATE AND FILAMENT

Primary 115 Volts—60 Cycles

"Climatite" treated coils and cores for protection against moisture and for elimination of lamination chatter. Small in size, yet loss is at a minimum. Temperature rise design is 55° C. Copper foil static shields grounded to case and core.

Triad No.	Secondary		Rect. Fil.		Other Filament		Wt. Lbs.	Net Each*
	AC Volts	DC Ma	V.	A.	Volts	A.		
R-104A	500 CT	40	...	...	6.3 CT	2	1.55	\$ 5.48
R-104B	500 CT	40	...	...	6.3 CT	2	1.55	5.78
R-105A	600 CT	65	...	...	6.3 CT	2.7	2	6.90
R-105B	600 CT	65	...	...	6.3 CT	2.7	2	7.02
R-106A	480 CT	50	5	2	6.3 CT	2	2.1	6.33
R-106B	480 CT	50	5	2	6.3 CT	2	2.1	6.65
R-107A	600 CT	50	5	2	6.3 CT	2	2.35	7.60
R-107B	600 CT	50	5	2	6.3 CT	2	2.35	7.62
R-108A	500 CT	75	5	2	6.3 CT	2.5	2.4	7.28
R-108B	500 CT	75	5	2	6.3 CT	2.5	2.4	7.40
R-109A	600 CT	75	5	2	6.3 CT	3	2.9	9.17
R-109B	600 CT	75	5	2	6.3 CT	3	2.9	9.17
R-110A	525 CT	90	5	2	6.3 CT	5	3.25	11.85
R-110B	525 CT	90	5	2	6.3 CT	5	3.25	8.85
R-111A	700 CT	90	5	3	6.3 CT	3.5	3.5	8.34
R-111B	700 CT	90	5	3	6.3 CT	3.5	3.5	8.34
R-112A	550 CT	110	5	2	6.3 CT	5	3.7	8.34
R-112B	550 CT	110	5	2	6.3 CT	5	3.7	8.23
R-113A	650 CT	40	5	2	6.3 CT	2	2.3	7.57
R-113B	650 CT	40	5	2	6.3 CT	2	2.3	7.72
R-114A	700 CT	125	5	3	6.3 CT	4.5	4.7	9.95
R-114B	700 CT	125	5	3	6.3 CT	4.5	4.7	9.95
R-115A	680 CT	70	5	2	6.3 CT	2.5	3.5	7.80
R-115B	680 CT	70	5	2	6.3 CT	2.5	3.5	7.68
R-116A	700 CT	160	5	3	6.3 CT	5	5.65	11.07
R-116B	700 CT	160	5	3	6.3 CT	5	5.65	11.07
R-118A	750 CT	175	5	3	6.3 CT	8	7.45	12.35
R-118B	750 CT	175	5	3	6.3 CT	8	7.45	12.45
R-120A	700 CT	200	5	3	6.3 CT	8	8.25	12.74
R-120B	700 CT	200	5	3	6.3 CT	8	8.25	13.34
R-121A	800 CT	200	5	3	6.3 CT	6	8.25	11.65
R-121B	800 CT	200	5	3	6.3 CT	6	8.25	11.65

## FILAMENT TRANSFORMERS, SINGLE SECONDARY

Primary 115 Volts—50/60 Cycles

Triad No.	Secondary		Test Volts	Case Size, In.		Wt. Lbs.	Net Each*
	Volts	Amps		H. x W. x D.			
F-1X	2.5 CT	3	1500	1 1/2	2 1/2	1.68	\$2.77
F-72Z	2.5 CT	5	7500	2 1/2	3 1/2	1.7	4.52
F-6X	2.5 CT	6	2500	1 1/2	2 1/2	1.7	3.78
F-3X	2.5 CT	10	3000	2 1/2	3 1/2	1.7	4.55
F-5U	2.5 CT	10	7500	3 1/2	4 1/2	2.2	6.38
F-71U	2.5 CT	10	10000	3 1/2	4 1/2	2.6	5.15
F-7X	5 CT	3	1500	1 1/2	2 1/2	1.3	3.57
F-8X	5 CT	6	1500	2 1/2	3 1/2	1.7	5.93
F-12X	5 CT	13	2500	2 1/2	3 1/2	2.5	4.62
F-9U	5 CT	13	1500	3 1/2	4 1/2	4.25	8.89
F-15U	5 CT	15	3000	3 1/2	4 1/2	4.25	7.93
F-10U	5 CT	14	10000	3 1/2	4 1/2	3.25	7.00
F-11U	5 CT	24	1500	3 1/2	4 1/2	6.75	10.87
F-13X	6.3	.6	1500	1 1/2	2 1/2	1.7	2.45
R-84K	6.3	.6	3500	2 1/2	3 1/2	1.5	2.65
F-14X	6.3 CT	1.2	2500	1 1/2	2 1/2	1.7	3.85
F-52X	6.3	1.2	5000	1 1/2	2 1/2	1.7	2.67
F-51X	6.3/5	2	5000	1 1/2	2 1/2	1.25	4.55
F-53X	6.3	4	5000	1 1/2	2 1/2	2.1	5.48
F-43X	6.3	4	1500	1 1/2	2 1/2	1.25	3.84
F-16X	6.3 CT	3	2500	1 1/2	2 1/2	1.3	4.73
F-18X	6.3 CT	6	1500	2 1/2	3 1/2	2.3	5.02
F-18A	6.3 CT	6	1500	3 1/2	4 1/2	2.5	7.05
F-19X*	6.3/6 CT	6	2000	2 1/2	3 1/2	2.3	4.23
F-21A	6.3 CT	10	1500	3 1/2	4 1/2	3.8	9.00
F-20U*	6.3/6 CT	11	3000	3 1/2	4 1/2	4.5	7.82
F-17U	6.3 CT	15	10000	3 1/2	4 1/2	7	12.50
F-22A	6.3 CT	20	2000	3 1/2	4 1/2	7.5	12.50
F-24U*	7.5/6.3 CT	8	3000	3 1/2	4 1/2	3.65	6.68
F-22U*	7.5/6.3 CT	25	3000	4 1/2	5 1/2	7.5	14.65
F-23U	10 CT	7	1500	3 1/2	4 1/2	3.9	7.77
F-29U*	12/11/10 CT	11	3000	4 1/2	5 1/2	6.5	11.52
F-25X	12.6 CT	1.5	1500	1 1/2	2 1/2	1.3	3.17
F-44X	12.6 CT	2	1500	1 1/2	2 1/2	1.25	3.65
F-26X	12.6 CT	2.5	1500	2 1/2	3 1/2	1.55	3.65
F-40X	26.8 CT	1	1500	1 1/2	2 1/2	1.3	3.39
F-41X	25.2 CT	2	1500	2 1/2	3 1/2	2.2	4.43
F-50X	6.3/4 CT	1	1500	1 1/2	2 1/2	1.2	4.88
F-45X	24 CT	1	1500	1 1/2	2 1/2	1.3	3.39

\*Tapped primary to produce lower voltages. †Static shield. ‡Filament line transformer; primary 6.3 V./5V. †60 cycle operation.

## ★ QUANTITY DISCOUNTS

1-9, Net; 10-24, 10%; 25-49, 19%; 50-99, 25%; 100-249, 28 1/2%; 250 up, 32 1/2%.

## FILAMENT TRANSFORMERS, MULTIPLE SECONDARY

Primary 115 Volts—50-60 Cycles

Triad No.	Secondary		Test Volts RMS	Case Size, In. H. x W. x D.	Wt. Lbs.	Net Each*
	Volts	Amps				
F-27U	10 CT	10	1500	4 1/2 x 3 1/2 x 3 1/2	6.2	\$11.39
F-30A	2.5 CT	10	7500			
F-30A	5 CT	3	1500	3 1/2 x 2 1/2 x 3 1/2	4	8.49
F-32A	6.3 CT	8	1500	3 1/2 x 2 1/2 x 3 1/2	2.5	5.82
F-34A	6.3 CT	3	1500	3 1/2 x 2 1/2 x 3	3.3	8.67
F-34A	6.3 CT	1.75	1500			
F-34A	6.3 CT	1.75	1500			
F-34A	6.3 CT	1.75	1500			
F-36A	6.3 CT	3.5	1500	3 1/2 x 3 1/2 x 3 1/2	5	10.27
F-36A	6.3 CT	3.5	1500			
F-36A	6.3 CT	3.5	1500			
F-36A	6.3 CT	3.5	1500			
F-38A	6.3 CT	5	1500	3 1/2 x 3 1/2 x 3 1/2	6	11.94
F-38A	6.3 CT	5	1500			
F-38A	6.3 CT	5	1500			
F-38A	6.3 CT	5	1500			
F-42A	12.6 CT	2.5	1500	3 1/2 x 2 1/2 x 3 1/2	3.7	6.77
F-42A	12.6 CT	2.5	1500			
F-83A*	12.6 CT	5	1500	3 1/2 x 3 1/2 x 3 1/2	6	10.84
F-83A*	12.6 CT	5	1500			

\*Primary tapped for 105/115/125 volts; 60 cycle operation. †Windings may be connected in series or in parallel.

## PLATE POWER TRANSFORMERS

Static Shield; Primary 115 Volts—60 Cycles

Triad No.	Secondary Volts		Sec. DC Ma		Rect. Fil.	Wt. Lbs.	Net Each*
	AC	DC	CCS	ICAS			
P-1A	440/220 CT	180/90	160	192	5V-3A	4	\$ 9.12
P-3A	600/300 CT	250/125	300	360	5V-4A	6.25	11.74
P-5A	1100 CT	400	250	300	5V-4A	8	12.50
P-7A	1235 CT	500	300	300	5V-4A	9	14.46
P-9A	1235 CT	500	500	600	5V-6A	18	21.50
P-11A	1455 CT	600	250	300	...	8.5	12.50
P-213AL	1780 CT*	750	250	300	...	9.5	19.50
P-14A	1780 CT*	750/600	250	300	...	13.5	19.12
P-215AL	2340 CT*	1000	250	300	...	13.5	21.65
P-216AL	2430 CT*	1000	500	600	...	25	43.32
P-217AL	2880 CT*	1250	250	300	...	14.8	24.67
P-218AL	2880 CT*	1250	500	600	...	27.5	48.30
P-220AL	3300 CT*	1500	350	420	...	24.5	41.68
PR-21AL	3300 CT*	1500	500	600	...	29	50.67

\*Primary, 115/230 v. AC. †Plate leads outside of case for rectifiers. ‡Also 1425 AC volts CT. \$ at 50-60 cycles.

## COMBINED PLATE AND FILAMENT TRANSFORMERS

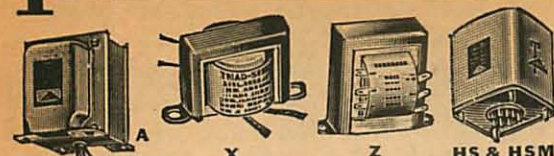
Static Shield; Primary 115 Volts—50-60 Cycles

Triad No.	Secondary		Rect. Fil.	Other Filament		Wt. Lbs.	Net Each*	
	AC Volts	DC Ma		Volts	A.			
R-22A*	380/320 CT	70	...	6.3	CT	3.6	\$ 7.52	
R-22B*	380/320 CT	70	...	6.3	CT	3.6	7.85	
R-4A	500 CT	40	...	6.3 CT	2	1 1/2	6.15	
R-4B	500 CT	40	...	6.3 CT	2	1 1/2	6.33	
R-5A*	600 CT	65	...	6.3 CT	2.7	2 1/2	7.40	
R-5B*	600 CT	65	...	6.3 CT	2.7	2 1/2	7.45	
R-6A	480 CT	50	5	2	6.3 CT	2	2 1/2	7.17
R-6B	480 CT	50	5	2	6.3 CT	2	2 1/2	7.50
R-7A*	600 CT	50	5	2	6.3 CT	2	2 1/2	8.22
R-7B*	600 CT	50	5	2	6.3 CT	2	2 1/2	8.44
R-8A	500 CT	75	5	2	6.3 CT	2.5	3	8.28
R-8B	500 CT	75	5	2	6.3 CT	2.5	3	8.34
R-9B	600 CT	75	5	2	6.3 CT	3	3 1/2	8.67
R-10A	525 CT	90	5	2	6.3 CT	3	3 1/2	9.27
R-10B	525 CT	90	5	2	6.3 CT	3	3 1/2	9.69
R-11A	700 CT	90	5	3	6.3 CT	3.5	4 1/2	10.69
R-11B	700 CT	90	5	3	6.3 CT	3.5	4 1/2	10.22
R-12A	550 CT	110	5	2	6.3 CT	5	4 1/2	10.67
R-12B	550 CT	110	5	2	6.3 CT	5	4 1/2	10.72
R-14A	700 CT	125	5	3	6.3 CT	4.5	6	12.40
R-14B	700 CT	125	5	3	6.3 CT	4.5	6	11.45
R-16A	700 CT	160	5	3	6.3 CT	5	7	13.00
R-16B	700 CT	160	5	3	6.3 CT	5	7	13.69
R-17A	750 CT	160	5	3	6.3 CT	5	7 1/2	15.39
R-18A	80 Tap	175	5	3	6.3 CT	8	8 1/2	12.66
R-18B	750 CT	175	5	3	6.3 CT	8	8 1/2	13.79
R-19A	750 CT	200	5	3	6.3 CT	6	9 1/2	17.94
R-20A	700 CT	200	5	3	6.3 CT	8	9 1/2	12.50
R-20B	700 CT	200	5	3	6.3 CT	8	9 1/2	13.52
R-72A*	800 CT	140	5	3	6.3 CT	4	5 1/2	11.77
R-21A	800 CT	200	5	3	6.3 CT	6	9 1/2	15.82
R-21B	800 CT	200	5	3	6.3 CT	6	9 1/2	14.79
R-24A*	800 CT	300	5	6	6.3 CT	6	14	16.74
R-24B*	800 CT	300	5	6	6.3 CT	6	14	16.57
R-25A	800 CT	500	5	6	6.3 CT	7	19	25.34
R-58A	875 CT	185	5	3	6.3	3	9 1/2	15.49
R-71A*	900 CT	250	5					





# Special Transformers



## MODULATION TRANSFORMERS, TUBE TO RF LOAD

Triad No.	Primary Imped.†	Secondary Imped.†	Ma	Audio Watts	Size, Inches H. x W. x D.	Net Each*
TY-65Z	32 CT (575 ma) Xsistor use	3K/4K/6K	100	10	2 3/4 x 2 3/8 x 2	\$ 2.83
M-4Z	5000 Autoformer	6750/4	100 Total	10	1 1/2 x 2 3/8 x 1 3/8	2.22
M-5Z	5000 Autoformer	6750/4	165 Total	20	2 1/2 x 3 3/8 x 2 3/8	4.11
M-1X	10000 CT (5 ma)†	5000/8000/10000	50	5	1 3/4 x 2 1/8 x 1 3/8	2.52
M-3X	10000 CT (10 ma)†	3000/5000/8000	100	20	2 1/4 x 3 1/8 x 2	4.50
M-6X	10000 CT (10 ma)†	3K/5K/8K/4	100	20	2 1/4 x 3 1/8 x 2	4.77
TY-66A	6 CT (5 a.) Xsistor use	3K/4K/6K	200	40	3 3/8 x 3 1/8 x 3 3/8	8.94
M-7AL*	4250 CT	3000/5000/8000	200	60	4 1/4 x 3 1/8 x 3 3/8	11.22
M-15A	4000-20000 Universal	4000 to 20000	150	30	3 1/2 x 2 1/8 x 3 1/4	9.05
M-12AL*	4000-20000 Universal	4000 to 20000	300	125	4 3/8 x 3 1/8 x 4 3/8	17.89

\*Plate leads outside of case. †Ohms. ‡Unbalanced.

## AUTO RADIO TRANSFORMER UNBALANCED

Triad No.	Imped., Ω Pri. Sec.	Pri. DC Ma	Pwr. W.	Size, Inches H. x W. x D.	Mtg. Ctr.	Net Each*
TY-1XT*	1K	40	10	2	1 1/2 x 2 x 1 3/8	\$2.10
TY-2Z†	30 CT	4	50	10	2 1/4 x 2 3/8 x 1 3/8	2.97
TY-3XT†	9 tap at 4	920	10	1 1/2 x 2 3/8 x 1 3/8	1 3/8 x 1 3/8	2.79
TY-4XT*	1K	10	10	2	1 1/2 x 2 x 1 3/8	2.10

\*Interstage. †Output. ‡Autoformer. #Per side.

## FILTER CHOKES

Test Voltage, 1000 v. rms. Size, 1 1/8" h. x 2 1/8" w. x 1 1/4" d. Mtg. Ctrs., 1 1/4" holes on 1 1/4" x 1 1/4".

Triad No. TY-16XT—3 mh at 1 a. Net Each..... \$1.35\*

Triad No. TY-17XT—11 mh at 1 a. Net Each..... 1.23\*

## SIGNALLING TRANSFORMERS

Triad No.	Primary Volts	Secondary Volts, AC	Amps	Size, Inches H. x W. x D.	Net Each*
F-102X	115 60 cy	4/8/12/16/20/24	2	2 1/2 x 3 1/8 x 2 1/8	\$4.77
F-104U	115 60 cy	4/8/12/16/20/24	4	3 1/2 x 2 3/8 x 2 1/8	9.15

## HERMETICALLY SEALED MIL-T-27A TRANSFORMERS

### FILAMENT TRANSFORMERS, 380-1500 CYCLES

Triad No.	Primary Volts	Secondary Volts	Amps	RMS Test Voltage	Case Key*	Net Each*
HS-436	115	6.3 CT	1	1500	AH	\$11.40
HS-425	105-115-125	6.3 CT	2	1500	AJ-2	13.32
HS-427	105-115-125	6.3 CT	5	500	EA	16.02
				2500		
HS-445	105-115-125	12.6 CT	3	2500	EA	16.22
HS-438	105-115-125	24 CT	1.5	1500	EA	16.38
HS-433	105-115-125	6.3 CT*	5	1500	FA	17.76
		6.3*	5	2500		
HS-435	105-115-125	6.3 CT*	3.5	2000	FA	19.86
		6.3*	3.5			
		5 CT/5†	3			
HS-441	105-115-125	5.3 CT*	10	2000	HA	27.15
		5*	10	7500		
		2.5 CT	10			
HS-443	105-115-125	12.6 CT*	.8	1500	AJ-2	16.08
		12.6*	.8			
HS-442†	57.5-99.7-115-120	12.6 CT*	2	1500	EA	19.08
		12.6*	2			
HS-444†	57.5-99.7-115-120	26 CT*	2	2000	FA	26.70
		26 CT*	2			

\*Windings may be connected in series or parallel. †Tapped for 5-volt rectifier use. ‡For Scott connection.

## ISOLATION TRANSFORMERS

Primary 115 V.—400 Cycle, Operate 380-1500 Cycles All types are electrostatically shielded.

Triad No.	VA Output	Secondary Amps	Output Volts	Case Key*	Net Each*
HS-470	40	.35	115	EA	\$13.74
HS-471	80	.7	115	FA	14.82
HS-472	160	1.39	115	GA	18.60
HS-474	300	2.6	115	JA	22.86
HS-475	505	4.4	115	KA	25.62

\*See case size table elsewhere.

## NEW CONTROL TRANSFORMERS

Multiple usage with relays, solenoids, electronic tubes, recording devices and similar applications. All use 115/230 VAC, 50/60 cps and have lug type connections.

Triad No.	Secondary		VA Rating	Size, Inches		Net Each*
	Parallel	Series-		H.	Base	
F-105Z	6 V at 2A	12 V at 1A	12	2 3/8	2 3/4 x 1 3/4	\$ 3.42
F-106Z	6 V at 4A	12 V at 2A	24	2 3/8	3 1/4 x 2	3.71
F-107Z	12 V at 4A	24 V at 2A	48	3 1/8	3 1/2 x 2 3/8	4.69
F-108U	12 V at 8A	24 V at 4A	96	3 1/8	2 1/2 x 3	7.58
F-109U	12 V at 16A	24 V at 8A	192	4 1/8	3 3/4 x 3 1/4	13.07

## UNIVERSAL ISOLATING AUTOFORMERS

For 50/60 cps voltage control use.

Triad No.	Output Watts (VA)			RMS Test Voltage	Size, Inches H. x W. x D.	Net Each*
	Isolation	Auto-former	Auto-former			
N-64AC	500	1000	1500	1500	5 1/2 x 4 1/2 x 4 3/8	\$ 27.39
N-62AC	1000	2000	1500	1500	6 1/2 x 5 1/2 x 6	54.30
N-60SC	2000	4000	2500	2500	4 3/4 x 8 3/4 x 13 1/2	104.78

## LOW VOLTAGE RECTIFIER TRANSFORMERS

All use 115 volt tapped primary. Used to supply transistor drive voltage. DC voltage, 15 half wave or 30 in bridge circuit.

Triad No.	Secondary Volts	Amps	Test Voltage	Size, Inches H. x W. x D.	Net Each*
F-94X	10-20 CT-40 CT	.035	1500	1 3/8 x 2 3/8 x 1 3/8	\$3.22
F-90X	10-20 CT-40 CT	.1	1500	1 3/8 x 2 3/8 x 1 3/8	3.40
F-91X	10-20 CT-40 CT	.3	1500	2 1/8 x 3 1/8 x 2 1/8	4.00
F-93X	10-20 CT-40 CT	.75	1500	2 1/8 x 4 x 2 1/8	5.48
F-92A	10-20 CT-40 CT	1	1500	3 1/8 x 2 1/8 x 3	7.73

## CHOPPER INPUT GEOFORMERS

Adjust at 60 cps; high Z and untuned windings for frequency of 30-500 cps. Static shield.

Triad No.	Impedance, Ohms	Secondary Turns Ratio	Max. Pri. Volts	Case Key*	Net Each*
G-20	10,000 CT-2,500	640,000 CT	1:8	25	GP-4T \$28.90
G-21	200,000 CT	12,500 CT	4:1	84	GP-2L 23.65
G-21TS	200,000 CT	12,500 CT	4:1	84	GP-4T 28.90
G-22	50,000 CT	800,000 CT	1:4	90	GP-5W 31.22
G-22H	50,000 CT	800,000 CT	1:4	90	GP-3R 25.85
G-23	40,000 CT	1,000 CT	6.32:1	75	GP-2L 23.65
G-23TS	40,000 CT	1,000 CT	6.32:1	75	GP-4T 28.90
G-24	40,000 CT	40,000 CT	1:1	19.5	GP-5S 37.83
G-25	40,000 CT-10,000 CT	10,000 CT	2:1	70	GP-2L 23.65
G-25TS	40,000 CT-10,000 CT	10,000 CT	2:1	70	GP-4T 28.90

†Full primary to full secondary. \*See case size table elsewhere.

## BOX SHIELDED ISOLATION TRANSFORMERS

Primary 115 V.—50-60 Cycle

Triad No.	Secondary Voltage	Current	VA	RMS Test Volts	Case Key*	Net Each*
HC-25	115	.218 a.	25	1000	GA	\$21.25
HC-115	115	1 a.	115	1000	KA	29.25
HC-300	115	2.6 a.	300	1000	NB	38.10

## ISOLATION TRANSFORMERS

Primary 115/230 V.—50-60 Cycles

Triad No.	VA Output	Secondary Amps	Output Volts	Case Key*	Net Each*
HSM-270	50	.4	105/115/125	JB	\$20.52
HSM-271	125	1	105/115/125	KA	26.10
HSM-272	250	2	105/115/125	NB	36.96

## HERMETICALLY SEALED FILTER REACTORS

Meet inductance tolerances of +50%, -20%.

Triad No.	Cur. DC Ma	Induct. Henries	Resist. Ohms	RMS Test Volts	Case Key*	Net Each*
HSM-301	20	30	1000	1500	EB	\$11.82
HSM-302	20	14	560	1500	AJ	11.04
HS-331	40	4	375	1500	AH-2	8.16
HS-303	50	12	385	1500	EB	11.34
HS-333	70	3	225	1500	AJ-2	9.09
HSM-305	70	15	300	2500	GB	12.24
HS-335	120	3	150	1500	EB	11.49
HSM-307	120	15	185	2500	JB	15.15
HSM-309	150	9	115	2500	JB	16.32
HS-339	200	3	105	2000	FB	12.48
HSM-315	200	10	100	2500	JA	18.84
HS-341	300	2	48	2000	GB	13.32
HSM-319	300	10	85	2500	LA	26.01

\*See case size table elsewhere.

## ★ QUANTITY DISCOUNTS

1-9, Net; 10-24, 10%; 25-49, 19%; 50-99, 25%; 100-249, 28 3/4%; 250 up, 32 3/4%.





# MIL-T-27A Sealed Transformers



HS & HSM

## HERMETICALLY SEALED IN MIL STANDARD CASES

All Series HS and HSM units are designed to meet MIL-T-27A specifications, and are cased in MIL-T-27A standard cases. Exceptions are those in GP cases, which may be classified as MIL-T-27A "YY" cases. All are "Climate" treated, finished in gray enamel, and permanently marked with electrical and test data as specified in MIL-T-27A.

### LOW LEVEL AUDIO INPUT TRANSFORMERS

Static shield except HS-5.

Triad No.	Impedance, Ohms		Freq. Resp.	Case Key*	Net Each*
	Primary	Secondary			
HS-1	600*/250*/150/62.5	77000	20-20000	GP-4†	\$28.58
HS-11	600*/250*/150/62.5	77000	20-20000	GP-2‡	21.68
HS-3	600*/250*/150/62.5	117600 CT	20-20000	GP-5§	31.10
HS-4	600*/250*/150/62.5	117600 CT	20-20000	GP-4¶	28.40
HS-14	600*/250*/150/62.5	117600 CT	20-20000	GP-3§	22.52
HS-15†	600*/250*/150/62.5 (10 ma)	38400 CT*	30-20000	GP-5¶	26.65
HS-5	30	127500	40-12000	GP-4†	27.55
HS-8	600*/250*/150/62.5	117600 CT*	20-20000	GP-4§	28.58

### LOW LEVEL AUDIO INTERSTAGE TRANSFORMERS

Triad No.	Impedance, Ohms		Freq. Resp.	Case Key*	Net Each*
	Primary	Secondary			
HS-23	15000	110000	20-20000	GP-4†	\$21.73
HS-25	15000	111000 CT*	20-20000	GP-4‡	21.73
HS-35	15000	111000 CT*	20-20000	GP-2§	19.51
HS-27	20000 CT*/5000	60000 CT*/15000	20-20000	GP-4¶	19.70
HS-29	20000 CT*/5000	80000 CT*/20000	20-20000	GP-4†	27.50
HSM-31	20000 CT*/5000	20000 CT*/5000 CT	20-20000	FA	21.08
HS-32†	15000 (6 ma)	60000 CT*/15000	20-15000	GP-5§	27.50

### LOW LEVEL OUTPUT, MIXING, MATCHING, BRIDGING

Triad No.	Impedance, Ohms		Freq. Resp.	Case Key*	Net Each*
	Primary	Secondary			
HS-50	15000	600*/250*/150/62.5	20-20000	GP-4†	\$23.23
HS-60	15000	600*/250*/150/62.5	20-20000	GP-2‡	19.51
HS-61†	15000 (5 ma)	600*/250*/150/62.5	40-15000	GP-5§	20.65
HS-52	20000 CT*/5000	600*/250*/150/62.5	20-20000	GP-4¶	24.02
HS-54	20000 CT*/5000	600*/250*/150/62.5	20-20000	GP-4†	28.58
HS-56†	600*/250*/150/62.5	600*/250*/150/62.5	10-30000	GP-4†	25.82
HS-66†	Same as above	Same as above	10-30000	GP-3§	23.18
HS-58†	Same as above	Same as above	20-20000	GP-5¶	30.32

\*Balanced two windings. †Designed for DC in primary; all other types will show low frequency loss with unbalanced DC in winding. ‡45 db shielding. §70 db shielding. ¶90 db shielding. †Static shield. \*Balanced parallel windings. †Split winding. †115 db shield.

### HI-FI AUDIO TRANSFORMERS

Hi-Fi output to line or voice coll. All models except HSM-184 have split winding in primary.

Triad No.	Impedance		Out-put Watts	Case Key*	Net Each*
	Primary	Secondary			
HSM-79*	20000 CT (20 ma) or 5000 (40 ma)	16/8/4	5	FA	\$19.51
HSM-80*	20000 CT (20 ma) or 5000 (40 ma)	600 CT/250 CT/150/62.5	5	FA	21.31
HSM-81†	8000 CT	16/8/4	15	JB	23.60
HSM-82†	8000 CT	600/250/125	15	JB	23.60
HSM-181††	8000/2000 CT	16/8/4	15	JB	23.60
HSM-182††	8000/2000 CT	600/250/125	15	JB	23.60
HSM-84†	5000 CT	16/8/4	25	KB	30.02
HSM-184††	8000 CT	16/8/4 (Split)	25	KB	30.02
HSM-189††	10000/2500CT	16/8/4	25	KB	30.02
HSM-190††	10000/2500CT	500/250/125	25	KB	30.02
HSM-186††	6600/1650 CT	16/8/4	25	KB	30.02
HSM-187††	6600/1650 CT	500/250/125	25	KB	30.02
HSM-94†	4500 CT	16/8/4	55	LA	43.65
HSM-192††	4000 CT	16/8/4	65	LA	45.04
HSM-193††	1000/445 CT	500/250/125	65	LA	45.04

Frequency Response: \*40-20,000 cps; †7-50,000 cps; ††10-50,000 cps; †††15-30,000 cps. †Williamson type circuit may be used. Taps on primary for proper screen operation.

### SOLID STATE POWER TRANSFORMER

Triad No. HSM-248—Primary 105/115/125 v., 50/60 cps. Secondary 35 v. AC CT at 3 amps rms. For full-wave or full-bridge bridge rectifier circuits providing 14.5 or 29 v. DC. Case KA. Net Each.....\$26.10\*

### ★ QUANTITY DISCOUNTS

1-9, Net; 10-24, 10%; 25-49, 19%; 50-99, 25%; 100-249, 28 3/4%; 250 up, 32 3/4%.

### POWER OUTPUT TO LINE OR VC

Triad No.	Impedance, Ohms		Max. Watts	Case Key*	Net Each*
	Primary	Secondary			
HS-71	10000 (10 ma)	600 CT/150 (Split)	2	AH-2	\$14.41
HS-73	5000 (40 ma)	4/8/16/250/500	5	AJ-2	15.43
HS-75	10000 CT (50 ma)	4/8/16/250/500	10	EB	18.19
HS-77	9000 CT (120 ma)	4/8/16/250/500	25	GA	21.20

### COMBINED PLATE AND FILAMENT TRANSFORMERS

Primary 115 V.—50-60 Cycle

All types have static shield except HSM-208.

Triad No.	Plate Supply			Case Key*	Net Each*
	AC Volts	DC Ma	Filaments Volts at A.		
HSM-200	120	100	6.3 CT-1.6 a.	FA	\$16.98
HSM-201	500 CT	20	6.3 CT-2 a.	GA	21.66
HSM-202	120	20	6.3 CT-6 a.	EA	14.75
HSM-203	600 CT	50	6.3 CT-2.5 a.	JB	22.86
		5	-2 a.		
HSM-205	700 CT	70	6.3 CT-3 a.	JA	24.42
		5	-3 a.		
HSM-207	700 CT	120	6.3 CT-5 a.	KA	26.40
		5	-3 a.		
HSM-208	626 CT	200	6.3/5.0-3 a.	KA	27.90
			6.3 CT-5 a.		
HSM-241	700 CT	150	6.3 CT-6 a.	LA	33.00
	70 v. bias tap		6.3 v.-2 a.		
			5 v.-3 a.		
HSM-212	1000/800 CT	150	6.3 CT†-4 a.	LA	34.56
			6.3†-4 a.		
			6.3†-4 a.		
HSM-245	800/700 CT	200	6.3 CT-6 a.	MA	39.90
	70 v. bias tap		6.3 v.-4 a.		
			5 -6 a.		
HSM-216	1000/800 CT	200	6.3 CT†-5 a.	MA	40.50
			6.3†-5 a.		
			6.3/5†-4 a.		
HS-247	800/700 CT	300	6.3 CT-8 a.	GP-15	45.99
	70 v. bias tap		6.3 v.-4 a.		
			5 -6 a.		

### COMBINED PLATE AND FILAMENT TRANSFORMERS

Primary 115 V.—400 Cycle, Operate 380-1500 Cycles

All types have static shield except HS-400, -404.

Triad No.	Primary	Secondary	Max. Watts	Case Key*	Net Each*
HS-402	476 CT	20	6.3 CT-1.5 a.	AJ	\$19.96
HS-400	125	25	6.3 CT-8 a.	AH	13.31
HS-401	500 CT	40	6.3 CT-1 a.	EB	17.64
			6.3-1 a.		
HS-405	600 CT	70	6.3 CT†-2 a.	GA	21.90
			6.3†-2 a.		
			6.3/5†-2 a.		
HS-404	450 CT	120	6.3 CT†-3 a.	FA	21.00
			6.3/5-3 a.		
HS-407	600 CT	120	6.3 CT†-3.5 a.	JB	26.34
			6.3†-3.5 a.		
			6.3/5†-3 a.		
HS-409	700 CT	150	6.3 CT-4 a.	HA	22.38
			6.3†/5†-3 a.†		
HS-413	450 CT	200	6.3 CT†-6 a.	JA	27.30
			6.3†-6 a.		
			6.3/5†-4 a.		
HS-415	800-600 CT	200	6.3 CT†-6 a.	KB	34.20
			6.3†-6 a.		
			6.3/5†-6 a.		
HS-417	800/600 CT	300	6.3 CT†-6 a.	LA	37.44
			6.3†-6 a.		
			6.3/5†-6 a.		

\*60 cps operation. †Series or parallel connection. †Tapped for 5-volt rectifier use.

### FILAMENT TRANSFORMERS, 50-60 CYCLES

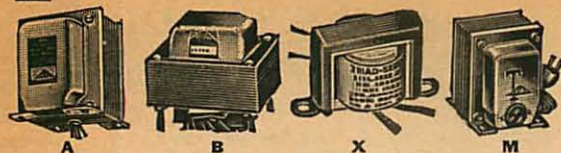
Triad No.	Primary Volts	Secondary Volts		RMS Test Volts	Case Key*	Net Each*
		Volts	A.			
HSM-223*	115	6.3	0.6	1500	AJ-2	\$11.61
HSM-225*	105-115-125	6.3 CT	2	1500	EA	14.28
HSM-226*	105-115-125	6.3 CT	3.6	1500	FA	16.32
HSM-224	105-115-125	6.3 CT	5.5	2500	HB	18.32
HSM-234	105-115-125	6.3 CT†	10	2500	KA	25.80
		6.3†	10			
HSM-227	105-115-125	6.3 CT†	3	2500	GA	19.44
		6.3†	3			
HSM-229	105-115-125	6.3 CT	8	2500	JB	21.96
HSM-233	105-115-125	12.6 CT	.8	1500	EA	14.00
HSM-237	105-115-125	12.6 CT	2	2000	FA	16.49
HSM-230	105-115-125	24 CT	0.8	1500	GA	15.72
HSM-239	105-115-125	24 CT	1.5	2500	GA	18.00
HSM-240	115/230	12.6 CT†	1.5	2500	GA	19.44
		12.6†	1.5			
HSM-236	105-115-125	12.6 CT†	2	2500	JB	21.54
		12.6†	2			
HSM-228	105-115-125	6.3 CT†	6	2500	JA	23.19
		6.3†	6			
HSM-231	105-115-125	6.3 CT	5	2500	JB	20.64
		5 CT	3			
HSM-238*	105-115-125	26 CT†	2	2500	JA	24.58
		26†	2			

\*60 cps operation. †Series or parallel connection. \*See case size table listed elsewhere in this section.





# Special Transformers, Filters



## INSTRUMENT POWER SUPPLY TRANSFORMERS

PRIMARY 115 VOLTS,\* FOR PREAMPS, VTVM, ETC.

Triad No.	Plate Supply AC Volts	DC Ma	Filament Windings Volts and Amps	Size, Inches H. x W. x D.	Wt., Lbs.	Net Each*
R-68A	800 CT	30	5v.-2a., 6.3t-1.2a., 6.3t-1.2 a.	3 3/4 x 2 1/2 x 3 1/2	3	\$ 9.00
R-23B	250 CT	22	6.3 v.-8 a. 15.5/12.6 v.-6 a.	1 1/2 x 2 1/2 x 2 1/2	1 1/4	6.15
R-2C	135	15	6.3 v.-9 a.	1 1/4 x 1 1/2 x 1 1/2	1	4.50
R-3A	500 CT	20	6.3 CT-2 a.	2 1/2 x 2 1/2 x 2 1/2	1 1/4	6.28
R-29A	230 CT	40	6.3 CT-1.5 a.	2 1/2 x 2 1/2 x 2 1/2	1 1/4	5.50
R-30X	135	50	6.3 v.-1.5 a.	2 1/2 x 3 1/2 x 2 1/2	1 1/2	4.89
R-54X	115	15	6.3 v.-6 a.	1 1/2 x 2 1/2 x 1 1/2	1	4.35
R-56A	130	20	0.15/22.5/30-6 a.	2 1/2 x 2 1/2 x 2 1/2	2	6.32
R-73B	135	200	6.3 CT-5.5 a.	1 1/2 x 3 3/4 x 2 1/2	2 1/2	7.45

\*50-60 cps (R-73B, 60 cps). †Series or parallel. ‡Static shield.

## FOR CATHODE RAY TUBES (115 V. 50-60 CPS)

Triad No.	Plate Supply AC Volts	DC Ma	Filament Windings Volts and Amps	Case Size, Inches H. x W. x D.	Net Each*
R-41C	440-0-440- 1250	125/5	5v.-3a., 2.5v.-1.75 a., 2.5v.-1.75a., 6.3 v.-6 a., 5 v.-3 a.	3 3/4 x 4 1/2 x 3 1/2	\$15.12
R-45C	400-0-400- 800	30/5	5v.-1.2 a., 5v.-1.2 a., 6.3 v.-6 a., 6.3 CT- 3 a., 6.3 v.-1 a.	2 3/4 x 3 1/4 x 3 1/4	13.47
R-43C*	1600	3	6.3/5/2.5 v.-1 a. 6.3/5/2.5 v.-3 a.	2 3/4 x 3 1/4 x 2 1/4	12.22
R-83A*	800 CT 650	70	6.3 CT-3.5 a.	3 1/2 x 2 1/2 x 3 3/4	14.24
R-84K	1825	3	6.3-6 a., 1.25†-3 a.	2 1/2 x 2 1/4 x 2 1/2	6.15
R-85A	117 180	200 475	1.25 v.-2 a. 6.3 CT-5.65 a.	3 3/8 x 3 3/8 x 4 3/8	15.99

\*60 cps operation. †Windings may be connected in series or parallel. ‡2-ohm resistor (2 w.) in series with filament when 1V2 is used.

## FOR REGULATED POWER SUPPLIES

All have static shield; 115 volts, 50-60 cps.

Triad No.	Plate Supply AC Volts	DC Ma	Filament Windings Volts and Amps	Case Size, Inches H. x W. x D.	Net Each*
R-70A	880†	75	6.3 v.-6 a., 6.3 v.- 9 a., 6.3 v.-3 a., 6.3 v.-3 a.	3 3/4 x 3 3/4 x 3 3/4	\$11.10
R-26A	880-720†	200	6.3†-8 a., 6.3 v.-3 a., 6.3 v.-1 a., 5 v.-3 a.	4 1/2 x 3 1/2 x 4 1/2	18.90
R-28A	1250†	300	6.3†-8 a., 6.3 v.-3 a., 6.3 v.-1.3 a., 5 v.-6 a.	5 1/2 x 4 1/2 x 5 1/2	25.86
R-46A	1250† 130*	350 50	5 v.-4 a., 6.3 v.-4 a., 6.3 v.-1 a., 6.3 v.-1 a.	5 1/2 x 4 1/2 x 5 1/2	25.12
R-27A	1500†	400	5 v.-6 a., 6.3 v.-3 a., 6.3 v.-8 a.	5 1/2 x 4 1/2 x 7 1/2	37.29

\*For bias using sel. rect.; supplies 550 v. DC using 2-5R4GY rect. tubes, choke input, filament windings regulate screen voltages. †Center tapped. ‡Windings may be connected in series or parallel.

## ISOLATION TRANSFORMERS—50/60 CYCLES

Triad No.	VA Output	Input Volts	Output Volts	Case Size, In. H. x W. x D.	Net Each*
N-51X†	35	115	115	2 1/2 x 3 1/2 x 2 1/2	\$ 4.17
N-68X	50	115/230†	115	2 1/2 x 3 1/2 x 2 1/2	5.67
N-53M	85	115	115	3 1/2 x 2 1/2 x 3 1/2	9.32
N-54M	150	115	115	3 1/2 x 3 1/2 x 3 1/2	12.69
N-73A	150	115	115/230†	3 1/2 x 3 1/2 x 3 1/2	10.60
N-74A	150	115	67.5/ 115†	3 1/2 x 3 1/2 x 3 1/2	10.45
N-67A	150	115/230†	115	3 1/2 x 3 1/2 x 3 1/2	10.39
N-55M	250	115	115	4 1/2 x 3 1/2 x 4 1/2	17.82
N-66A	250	115/230†	115	4 1/2 x 3 1/2 x 4 1/2	15.22
N-57M	500	115	115	5 1/2 x 4 1/2 x 6 1/2	35.84
N-59M†	1000	115	115	5 1/2 x 4 1/2 x 7 1/2	48.66
N-56M†	150	95-130†	115	4 1/2 x 3 1/2 x 5 1/2	34.27
N-52M*	350	95-130†	115	4 1/2 x 3 1/2 x 5 1/2	28.07
N-69A†	50	220/400†	115	3 1/2 x 3 1/2 x 3 1/2	8.91
N-470A	150	220/440†	115	3 1/2 x 3 1/2 x 3 1/2	8.91
N-471A†	300	220/440†	115	4 1/2 x 3 1/2 x 4 1/2	12.51

\*With cord, switch and meter for primary voltage control. †60 cps. ‡Split winding. \$5-volt steps.

## "SPLATTER" CHOKES

Triad No.	Inductance, Henries	Cur., Ma	Res., Ohms	Size, Inches H. x W. x D.	Net Each*
C-26X	.2 to 1.5*	100	95	1 1/2 x 3 1/4 x 2	\$3.55
C-43X	.05 to 1*	300	40	2 1/2 x 4 x 2 1/2	4.77

\*Tapped; inductance tolerance, -20% +50%.  
Note: Last letter(s) of Triad No. indicates case style.

## ★ QUANTITY DISCOUNTS

1-9, Net; 10-24, 10%; 25-49, 19%; 50-99, 25%; 100-249, 28 1/4%; 250 up, 32 1/2%.

## STEPDOWN AUTOFORMERS—50-60 CYCLES

Triad No.	VA Output	Input Volts	Output Volts	Size, Inches H. x W. x D.	Net Each*
N-1X	50	230	115	2 1/2 x 3 1/2 x 2	\$ 3.43
N-3M	85	230	115	3 1/2 x 2 1/2 x 3 1/2	7.82
N-4M	150	230	115	3 1/2 x 2 1/2 x 3 1/2	7.88
N-5M	250	230	115	3 1/2 x 3 1/2 x 3 1/2	11.55
N-7M	600	230	115	4 1/2 x 3 1/2 x 5 1/2	18.52
N-9M	1250	230	115	5 1/2 x 4 1/2 x 6 1/2	36.33
N-11M	2000	230	115	5 1/2 x 4 1/2 x 7 1/2	50.59
N-34X	150	95/105/ 115/125/ 135	115	2 1/2 x 4 x 2 1/2	6.07

N-35M\* 350 95-130† 115 4 1/2 x 3 1/2 x 3 1/2 15.79  
N-50M† 500 95-130† 115 4 1/2 x 3 1/2 x 5 1/2 23.94

\*M case with switch for primary voltage control; detachable cord. †With switch and meter for primary voltage control; detachable cord. ‡5-volt steps.

## DC TO DC CONVERTER TRANSFORMERS

For use in blocking oscillator type power supplies where small size, high voltage and low power are required.

Triad No.	Typical Operation		Net Each*
	Input	Output	
TY-200X	3 v. DC at 20 ma	1050 v. DC at 25 µa	\$5.55
TY-201TZ	4 v. DC at 15 ma	500 v. DC at 50 µa	5.25
TY-202X	3 v. DC at 45 ma	550 v. DC at 80 µa	5.10

## CONSTANT VOLTAGE TRANSFORMERS

Input: 95-130 v. 60 cps. Output: 117 v., 118 v. normal harmonic.

Triad No. K-100-30 VA. Net Each.	\$20.00*
Triad No. K-101-60 VA. Net Each.	25.00*
Triad No. K-102-120 VA. Net Each.	39.00*
Triad No. K-103-250 VA. Net Each.	77.00*
Triad No. K-104-500 VA. Net Each.	97.00*

## 400 CPS FILTERS—SOURCE IMP., 10K-OHM

No.	Application	Load Imp.	Case Key*	Net Ea.*
FL-381	Bandpass	1 Meg	GP-4	\$43.90
FL-389	Band rej.	10 kc	EA	41.39

\*See case size table listed elsewhere in this section.

## TELEMETRY FILTERS (EPOXY MOLDED)

Source and load imp., 47 kc. Insertion loss, less than 3 db at Fo. Attenuation (Fo ± 15%): Less than 1 db, pass band; over 20 db, below .15Fo; over 30 db, above 2 x Fo. 1.562" x 1.375" x .75" h.

Triad No.	IRIG Chan. No.	Center Freq., Fo	Net Each*	Triad No.	IRIG Chan. No.	Center Freq., Fo	Net Each*
FL-384	A	22 kc	\$62.25	FL-387	D	52.5 kc	\$61.42
FL-385	B	30 kc	61.42	FL-388	E	70 kc	63.62
FL-386	C	40 kc	61.42				

## SMOOTHING FILTER REACTORS

Triad No.	Induct., Henries*	Current DC Ma	Resist., Ohms	Size, Inches H. x W. x D.	Net Each*
C-30X	50	15	3500	1 1/2 x 2 1/2 x 1 1/2	\$ 2.17
C-2X	2	15	70	1 1/2 x 2 1/2 x 1 1/2	1.65
C-1X	15	20	1000	1 1/2 x 2 1/2 x 1 1/2	1.78
C-3X	10	50	500	1 1/2 x 2 1/2 x 1 1/2	2.10
C-4X	4	50	360	1 1/2 x 2 1/2 x 1 1/2	1.77
C-6X	5	65	330	1 1/2 x 2 1/2 x 1 1/2	2.04
C-5X	12	75	290	1 1/2 x 3 1/2 x 1 1/2	2.34
C-8X	7	75	340	1 1/2 x 3 1/2 x 1 1/2	2.50
C-7X	10	90	270	1 1/2 x 3 1/2 x 1 1/2	2.67
C-9X	4	90	100	1 1/2 x 3 1/2 x 1 1/2	2.34
C-11X	6	110	180	2 1/2 x 3 1/2 x 2	3.18
C-10X	9	125	250	2 1/2 x 3 1/2 x 2	3.21
C-12X	6	160	165	2 1/2 x 3 1/2 x 2	3.30
C-12A	6	160	165	2 1/2 x 3 1/2 x 2	3.30
C-13X	3	160	75	2 1/2 x 3 1/2 x 2	3.04
C-14X	6	200	150	2 1/2 x 4 x 2	3.33
C-14A	6	200	150	3 1/2 x 2 1/2 x 3 1/2	5.43
C-16A	10	200	150	3 1/2 x 2 1/2 x 3 1/2	7.68
C-21X	1.5	225	65	1 1/2 x 3 1/2 x 1 1/2	2.38
C-15X	4	250	100	2 1/2 x 4 x 2	3.68
C-15A	4	250	100	3 1/2 x 2 1/2 x 3 1/2	5.25
C-23X	1.2	260	45	1 1/2 x 3 1/2 x 2	2.48
C-24X	1	240	50	1 1/2 x 3 1/2 x 1 1/2	2.02
C-27X	.7	290	30	1 1/2 x 2 1/2 x 1 1/2	2.10
C-36X	.5	300	30	1 1/2 x 2 1/2 x 1 1/2	1.82
C-17X	1.5	300	40	2 1/2 x 3 1/2 x 2	2.93
C-18A	8	300	90	3 1/2 x 3 1/2 x 3 1/2	8.49
C-19A	10	300	105	4 1/2 x 3 1/2 x 4 1/2	11.57
C-20A	2.6	310	60	4 1/2 x 3 1/2 x 4 1/2	9.52
C-42AL	6	350	105	3 1/2 x 3 1/2 x 4 1/2	2.02
C-34X	8	350	35	4 1/2 x 2 1/2 x 1 1/2	3.57
C-28X	1	350	35	1 1/2 x 3 1/2 x 2	2.93
C-29X	1.5	375	50	2 1/2 x 3 1/2 x 2	4.49
C-50X	2	400	60	2 1/2 x 4 x 2 1/2	2.93
C-20A	6	400	60	4 1/2 x 3 1/2 x 4 1/2	12.12
C-22A	10	500	65	5 1/2 x 4 1/2 x 5 1/2	19.74
C-45AL	10	500	65	5 1/2 x 4 1/2 x 5 1/2	30.74
C-40X	.32	600	10	1 1/2 x 3 1/2 x 2	2.67
C-47U	.3/.075†	1A/2A	3/0.75	3 1/2 x 2 1/2 x 3 1/2	7.48
C-48U	.08/.02†	2.5A/5A	.61/.155	3 1/2 x 3 1/2 x 3 1/2	9.55
C-49U	.032/.008†	5A/10A	.19/.05	4 1/2 x 3 1/2 x 3 1/2	12.65
C-80U	.024/.006†	20A/40A	.1/.025	5 1/2 x 4 1/2 x 5 1/2	34.52

## SWINGING FILTER REACTORS

C-31A	25/5	20/200	150	3 1/2 x 2 1/2 x 3 1/2	\$ 7.12
C-32AL	20/4	35/350	105	4 1/2 x 3 1/2 x 4 1/2	11.57
C-33A	25/5	30/300	105	4 1/2 x 3 1/2 x 4 1/2	10.34
C-35A	20/4	40/400	65	4 1/2 x 3 1/2 x 4 1/2	12.00
C-38AL	25/5	50/500	65	5 1/2 x 4 1/2 x 5 1/2	21.60
C-39A	25/5	50/500	65	5 1/2 x 4 1/2 x 5 1/2	21.24

\*Inductance tolerance, -20% +50%. †Split winding.





# Power and Pulse Transformers



BS

BC

A

## SPECIAL POWER TRANSFORMERS

Multiple filament industrial and TV replacement type. Static shield. Primary 115 v., 50-60 cps. except R-65BC thru R-675A, 60 cps.

Triad No.	Plate Supply AC Volts	DC Ma	Filaments Volts-Amps	Size, Inches H. x W. x D.	Net Each*
R-37BC	735 CT	275	5-6A, 6.3-8.5A, 6.3/5-2.1*	3 3/4 x 4 1/2 x 3 3/4	\$21.94
R-38A	750 CT	225	5-3A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	4 3/8 x 3 1/2 x 4 3/4	18.18
R-38BC	750 CT	225	As above	3 3/4 x 4 1/2 x 3 3/4	20.45
R-39BC	640 CT	225	5-3A, 6.3-10A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	18.90
R-40BC	780 CT/440 CT	300	5-3A, 6.3-10A, 5-2A, 6.3-8.5A, 6.3-3.5A, 5-3A, 6.3-7A, 6.3-2A.*	3 3/4 x 4 1/2 x 3 3/4	23.65
R-42BC	675 CT	185	5-3A, 6.3-9A, 6.3-9A, 6.3-1.2A.*	4 1/4 x 4 1/2 x 3 3/4	20.32
R-49BC	650 CT	240	As above	3 3/4 x 4 1/2 x 3 3/4	21.27
R-49BS	650 CT	240	5-3A, 5-2A, 5-3A, 6.3-5A, 6.3-5A, 6.3-5A, 5-3A, 5-2A, 5-3A, 6.3-5A, 6.3-5A, 6.3-2.6A, 5-6A, 6.3-5A, 6.3-5A, 6.3-1.2A.*	4 1/4 x 4 1/2 x 3 3/4	24.60
R-50BC	790 CT/650 CT	310	5-3A, 5-2A, 5-3A, 6.3-5A, 6.3-5A, 6.3-5A, 5-3A, 5-2A, 5-3A, 6.3-5A, 6.3-5A, 6.3-2.6A, 5-6A, 6.3-5A, 6.3-5A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	26.06
R-51BC	505 CT	320	As above	3 3/4 x 4 1/2 x 3 3/4	14.17
R-52BC	600 CT	270	5-6A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	17.15
R-60BC	460 CT	300	5-6A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	20.39
R-61BC	560 CT	300	5-6A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	22.29
R-62BC	680 CT	290	Same as R-60BC	4 1/4 x 4 1/2 x 3 3/4	26.82
R-64BC	520 CT	270	5-3A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	2 3/4 x 4 1/2 x 3 3/4	14.58
R-65BC	550 CT	270	5-3A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	2 3/4 x 4 1/2 x 3 3/4	14.35
R-66BC	680 CT	270	5-3A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	2 3/4 x 4 1/2 x 3 3/4	16.02
R-67BC	580 CT	250	5-3A, 6.3-9A, 6.3-2.5A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	16.15
R-69BC	550 CT	270	5-3A, 6.3-10A, 6.3-2.5A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	16.07
R-74BC	680 CT	190	5-3A, 6.3-7.8A, 6.3-1.2A.*	3 3/4 x 4 1/2 x 3 3/4	17.99
R-76BC	650 CT	350	5-6A, 6.3-8A, 6.3-5A, 6.3-2A.*	3 3/4 x 4 1/2 x 3 3/4	17.92
R-77BC	550 CT	350	5CT-6A, 6.3-8A, 6.3-6A, 6.3-2A.*	3 3/4 x 4 1/2 x 3 3/4	19.50
R-77BS	550 CT	350	Same as above	3 3/4 x 4 1/2 x 3 3/4	21.45
R-78BC	700 CT	200	5-3A, 6.3-6A, 6.3-4A, 6.3-2A.*	2 3/4 x 4 1/2 x 3 3/4	16.90
R-81BC	590 CT	350	5-6A, 6.3-8A, 6.3-5A, 6.3-2A.*	3 3/4 x 4 1/2 x 3 3/4	21.44
R-81BS	590 CT	350	Same as above	3 3/4 x 4 1/2 x 3 3/4	21.42
R-675A	660 CT	270	5-6A, 6.3-9.35A, 6.3-1.2A.*	4 3/8 x 3 1/2 x 4 3/4	17.57

\*Dampener winding. †Designed for either series or parallel connection. ‡Except 5 volts at 3 amps.

## PULSE TRANSFORMERS (BLOCKING OSC. TYPE)

Triad No.	Pulse Volts Per Winding	Pulse usec.	Duty Ratio	Imped. Ohms	Size, In.	Net Each*
PL-4	100-100	.54-.66	.01	500	3/4 x 1 1/2	\$10.66
PL-5	100-100-100	.36-.54	.01	2000	1 1/4 x 1 1/2	12.14
PL-6	100-100-100	.36-.54	.01	2000	3/4 x 1 1/4	12.14

## PULSE TRANSFORMERS

High Speed Low Power, Ferrite Toroidal Core

Triad No.	Turns Ratio	Pulse Width usec	Rise Time usec	Rep. Rate	Load Ohms	Output Volts	Net Each*
PL-81H	2-1	.07	.03	1-2 mc.	200	20	\$12.25
PL-81P	2-1	.07	.03	1-2 mc.	200	20	11.67
PL-81E	2-1	.07	.03	1-2 mc.	200	20	11.47
PL-82H	3-1	.08	.03	1-2 mc.	100	15	12.69
PL-82P	3-1	.08	.03	1-2 mc.	100	15	12.02
PL-82E	3-1	.08	.03	1-2 mc.	100	15	11.39
PL-83H	4-1	.08	.03	1-2 mc.	100	15	12.92
PL-83P	4-1	.08	.03	1-2 mc.	100	15	12.27
PL-84H	5-1	.08	.03	1-2 mc.	100	15	13.07
PL-84E	5-1	.08	.03	1-2 mc.	100	15	11.82

## Low Speed Low Power, Silicon Core

Triad No.	Pulse Voltage per Winding	Pulse Duration usec	Max. Duty Ratio	Load Impedance Ohms	Net Each*
PL-124E	300-300-300	.6 to 5	.002	150	\$11.39
PL-140E	100-400-100	.6 to 5	.002	175	11.39
PL-140H	100-400-100	.6 to 5	.002	175	12.77
PL-140M	100-400-100	.6 to 5	.002	175	13.85
PL-139E	100-100	.3 to 1.5	.002	250	9.80
PL-139H	100-100	.3 to 1.5	.002	250	10.88
PL-139M	100-100	.3 to 1.5	.002	250	11.75
PL-146E	300-300	.6 to 5	.002	250	11.39
PL-146H	300-300	.6 to 5	.002	250	12.72
PL-146M	300-300	.6 to 5	.002	250	13.84

## PHOTOFLASH (ELECTRONIC FLASH) TRANSFORMERS

Triad No. VR-30Z—From 115 v., 60 cps line or 4 v., 180 cps vibrator to 350 v. rms at 14 ma. Wt., 1 1/2 lbs. Net Each. . . . \$4.15\*  
Triad No. PL-10—Trigger coil, 1:30 turn ratio. Net Ea. . . . 1.78\*

## UNIVERSAL RECTIFIER TRANSFORMERS (PRI. 50-60 CPS)

Triad No.	Pri. Volts	Secondary		DC Volts		Case Size, Inches H. x W. x D.	Net Each*
		AC Volts	Amps RMS	Half Wave	Full Wave		
F-47U	115	17-18	3	6-7	13-14	3 1/2 x 2 1/2 x 2 1/2	\$ 6.30
F-48U	115	17-18	6	6-7	13-14	3 1/2 x 2 1/2 x 3 3/4	9.02
F-49U	115	36†	3	13	26	4 3/8 x 3 1/2 x 3 3/4	13.55
F-60U	115	6.5-13† 19.5-26	3	9	18	3 1/2 x 2 1/2 x 2 1/2	6.15
F-61U	115	24-27-30-33-36	3	13	26	3 1/2 x 2 1/2 x 3 3/4	9.27
F-67U†	110-120	24-27-30-33-36	8	13	26	4 3/8 x 3 1/2 x 3 3/4	17.72
F-63U	115	8-9† 8-9†	2	.....	6-7 6-7	3 3/8 x 2 1/2 x 2 1/2	6.43
F-64U	115	7-8-9	7	.....	5-6-7	3 3/8 x 2 1/2 x 2 1/2	6.57
F-62U†	105-115-125	9† 9† 9†	10 10 10	.....	.....	4 3/8 x 3 1/2 x 5 1/2	23.49
F-68U†	115	9 CT†	3.5 9† 9† 3.5	.....	7 7 7 7	3 1/2 x 2 1/2 x 2 1/2	9.50
F-65U	110-120	140-150-160	.76	60	115	3 1/2 x 2 1/2 x 3 3/4	8.79
F-66U	110-120	140-150-160	2.5	60	115	5 3/8 x 4 1/2 x 5	27.60
F-79U†	115	24-26-28-30	15	11.4	22.8	3 1/2 x 4 1/2 x 5 1/2	24.74
F-80U†	115†	12-13.5-15-16.5-18† 12-13.5-15-16.5-18†	20 20	.....	13 13	5 3/8 x 4 1/2 x 4 3/4	39.31
F84AC:	230-115†	12 CT† 12 CT†	10 10	.....	8.5 8.5	4 3/8 x 3 1/2 x 4 3/4	20.27
R-93A†	110-120	150-160-170 6.3 CT	.5 6	65	120	4 1/4 x 3 1/2 x 4 3/4	16.17
R94H:	115	180-177 6.3-6.3	.5-.005 5.5-5.5	Dblr 470		3 1/2 x 4 1/2 x 6 1/2	26.11

\*Tapped. †Windings in series or parallel. 160 cps. ‡Split winding. NEW UNIVERSAL RECTIFIER POWER

Triad No.	Primary 50/60 cps	Secondary ADC		Net Each*
		VAC	CT† Bridge	
F-200A	117 V	13/18 at .9 ADC*	.....	\$ 4.87
F-202U	117 V	11.0-29.5	2.0 1.25	4.98
F-203U	117 V	12.0-30.0	4.0 2.0	6.70
F-204U	117 V	11.5-29.0	8.0 4.0	8.75
F-205U	117 V	12.0-29.5	12.0 6.0	11.87

\*Sec. No. 2, same. †Full wave.

## SOLID STATE RECTIFIER POWER TRANSFORMERS

Pri., 115 v., 50/60 cps. Fil. 1 and 2 are 6.3 v.

Triad No.	Sec. Volts	DC A.	Fil. 1, 2	Net Ea.*	Triad No.	Sec. Volts	DC A.	Fil. 1, 2	Net Ea.*
R-200A	400 CT	.4	3 A.	\$13.38	R-203A	100 CT	1.6	1.5 A.	\$11.82
R-201A	300 CT	.6	2.5 A.	13.35	R-204A	80 CT	2.0	1.5 A.	12.87
R-202A	200 CT	.8	2 A.	13.31	R-205A	60 CT	2.5	1.5 A.	12.91

## CASE SIZES FOR TRIAD TRANSFORMERS

Case Type	Dimensions, Inches						Weight, Lbs.
	A	B	C	D	E	G	
AF	1 1/4	1 3/4	1 3/8	1 1/2	.....	.....	4-40
AG	1	1 3/4	1 3/8	1 1/2	.....	.....	6-32
AH	1 1/4	1 3/4	1 3/8	1 1/2	.....	.....	6-32
AJ	1 1/4	1 3/4	2 3/8	1 1/2	.....	.....	4 oz.
AJ-2	1 1/4	1 3/4	2 3/8	1 1/2	.....	.....	6-32
EA	1 1/4	1 3/4	1 3/4	1 1/2	.....	.....	11 oz.
EB	1 1/4	1 3/4	1 3/4	1 1/2	.....	.....	5 1/2 oz.
FA	2 1/4	2 1/4	2 1/4	1 1/2	.....	.....	6-32
FB	2 1/4	2 1/4	2 1/4	1 1/2	.....	.....	1 1/2
GA	2 1/4	2 1/4	2 1/4	1 1/2	.....	.....	6-32
GB	2 1/4	2 1/4	2 1/4	1 1/2	.....	.....	6-32
GP-1	1 1/4	1 1/4	1 1/4	1 1/2	.....	.....	3 oz.
GP-2	1 1/4	1 1/4	2 1/4	1 1/2	.....	.....	5 1/2 oz.
GP-3	1 1/4	1 1/4	2 3/8	1 1/2	.....	.....	8 oz.
GP-4	1 1/4	1 1/4	2 1/4	1 1/2	.....	.....	12 oz.
GP-5	1 1/4	1 1/4	2 1/4	1 1/2	.....	.....	17 oz.
GP-15	5 1/4	4 3/4	6 3/8	4 3/8	.....	.....	22
HA	2 1/4	3 1/4	4 1/4	2 1/4	.....	.....	8-32
HB	2 1/4	3 1/4	3 3/4	2 1/4	.....	.....	8-32
JA	3 1/4	3 1/4	4 3/8	2 3/8	.....	.....	8-32
JB	3 1/4	3 1/4	3 3/8	2 3/8	.....	.....	8-32
JQA	1 1/4	1 1/4	1 1/4	1 1/2	.....	.....	2 oz.
JOA	1 1/4	1 1/4	1 1/4	1 1/2	.....	.....	2 1/2 oz.
JZ	1 1/4	1 1/4	1 1/4	1 1/2	.....	.....	5 oz.
KA	3 1/4	3 1/4	5 1/4	3	.....	.....	10-32
KB	3 1/4	3 1/4	5 1/4	3	.....	.....	10-32
LA	3 1/4	4 1/4	5 1/4	3 3/4	.....	.....	10-32
LB	3 1/4	4 1/4	4 1/2	3 3/4	.....	.....	10-32
MA	4	4 1/4	6	3 1/4	.....	.....	1 1/2-20
MB	4	4 1/4	4 1/2	3 1/4	.....	.....	1 1/2-20
NA	4 1/2	5 1/4	6 1/4	4 1/4	.....	.....	1 1/2-20
NB	4 1/2	5 1/4	5 1/4	4 1/4	.....	.....	1 1/2-20

A—Width. B—Overall depth. C—Height. D and E—Center-to-center mounting studs. G—Stud length. I—Stud threading.

\*Not in conformance with MIL specifications. †On 2-stud version, studs spaced 1 1/2". ‡Diameter.