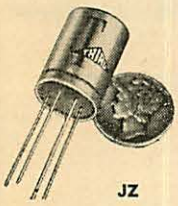
TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

MINIATURES

†† JAF SERIES — Hermetically Sealed

Type No.	Primary Impedance	Secondary Impedance	Max. Level-DBM	Freq. Resp.	MTG.
JAF-1	600/250/50	50000	0	60-15000	AF
JAF-2	600/250/50	25,000	0	150-7000	AF
JAF-3	600/250/50	60000 CT.	0	60-15000	AF
JAF-5	30/12/4	50000	0	60-12000	AF
JAF-11	15000	50000	10	60-15000	AF
JAF-12	15000	60000 CT.	10	60-15000	AF
JAF-13	15000	95000 CT.	10	350-7000	AF
JAF-14	200	½ megohm	0	350-5000	AF
JAF-15	15000	1 megohm	10	350-5000	AF
JAF-21	15000	600/250/50	10	60-15,000	AF
JAF-22	15000	600/250/50	10	350-7000	AF
JAF-23	20000 CT.	600/250/50	10	60-15000	AF
JAF-31	600/250/50	600/250/50	10	60-15000	AF
JAF-33	5000 CT.	5000 CT.	10	60-15000	AF
JAF-101	50 h.-.75 Ma.				AF



JZ

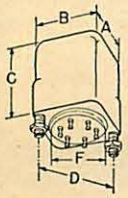
SUB-MINIATURE AUDIO — Hermetically Sealed

Type No.	Primary Impedance	Secondary Impedance	DC Res. Ohms (Approx.) Pri.	Sec.	Case
JZ-1	30/12/4	50000	11.5	3800	JZ
JZ-5	600/250/50	60000	350	4100	JZ
JZ-7	30/12/4	1000	5	480	JZ
JZ-13	15000 (1 Ma.)	135000 CT.	985	4400	JZ
JZ-15	20000 (.5 Ma.)	1200/600/100	2700	350	JZ
JZ-25	10000 (1 Ma.)	200	1500	120	JZ
JZ-26	1000 (5 Ma.)	50	355	20	JZ

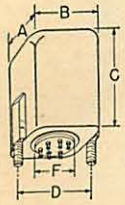
TZ

SUB-MINIATURE AUDIO — Open Frame

Type No.	Primary Impedance	Secondary Impedance	DC Res. Ohms (Approx.) Pri.	Sec.
TZ-1	600/250/50	60000	350	4100
TZ-5	30/12/14	50000	11.5	3800
TZ-7	30/12/4	1000	5	480
TZ-13	15000 (1 Ma.)	135000 CT.	985	4400
TZ-15	20000 (.5 Ma.)	1200/600/100	2700	350
TZ-25	10000 (1 Ma.)	200	1500	120
TZ-26	1000 (5 Ma.)	50	355	20
TZ-28	600	50	95	11
T-41X	1000 (10 Ma.)	200 CT.	430	130
T-42X	9800 (2 Ma.)	16	855	1.7
TY-44X	1000 (10 Ma.)	16/8/4	180	3.8
TY-47X	2000 CT	16/8/4	260	4



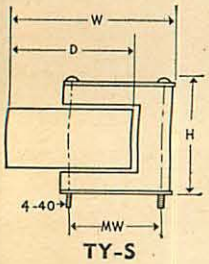
AF
AJ



AG
AH

TRANSFORMERS FOR TRANSISTOR POWER SUPPLIES

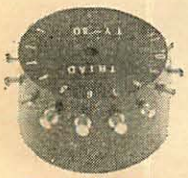
Type No.	D.C. Volts Out of Rect.	D.C. Ma. Max.	Dimensions—Inches H	W	D	MW
TY-68S	250	65	1-3/4	1-3/4	1-11/32	1-1/2
TY-69S	300	100	1-7/8	2-3/8	1-7/8	1-1/2
TY-70S	325	150	2	2-3/8	2-7/16	1-1/2
TY-71S	375	200	2	2-3/8	2-7/16	1-1/2
TY-74S	600	200	2	4-1/8	3	3-3/4



TY-S

EPOXY MOLDED TOROIDAL TYPE

Type No.	DC source volts	DC volts out of rect.	DC MA max.	Dimensions H	Inches Dia.	Wt.
• TY-78	12.6	250	100	11/16	1-3/4	.35
• TY-79	12.6	300	200	1	1-3/4	.35
• TY-80	12.6	325	150	1	1-3/4	.35
• TY-81	12.6	375	200	1	2	.50
• TY-82	12.6	450	150	1	2	.50
• TY-84	12.6	600	200	1-3/8	2-3/4	1.00
• TY-88	28	250	80	9/16	1-5/16	.25
• TY-89	28	300	100	11/16	1-3/4	.35
• TY-90	28	325	200	1	1-3/4	.35
• TY-91	28	375	200	1	2	.50
• TY-92	28	450	200	1	2	.50
• TY-94	28	600	200	1-3/8	2-3/4	1.00
• TY-99	6	300	100	1	1-3/4	.35
• TY-100	6	325	150	1	2	.50
• TY-101	6	375	200	1-3/8	2-3/4	1.00
• TY-102	6	450	150	1-3/8	2-3/4	1.00



TY-MOLDED

MINIATURES

TRANSISTOR Transformers

Type No.	Primary Impedance	Secondary Impedance	Maximum Level
TY-66A	6 CT. (5A.)	6000/4000/3000	40W
TY-67A	6 CT. (5A.)	16/8/4	40W
TY-64X	32 CT. (575 Ma.)	16/8/4	10W
TY-65Z	32 CT. (575 Ma.)	6000/4000/3000	10W
TY-63X	48 CT. (550 Ma. bal.)	16/8	5W
TY-48X	100 CT. (40 Ma.)	16/8/4	500MW
TY-61X	100 (100 Ma.)	100 CT.	500MW
TY-46X	100 (100 Ma.)	1000 CT.	250MW
TY-58X	125 CT. (15 Ma.)	8/4	200MW
TY-53X	200 CT. (10 Ma.)	400 CT.	600MW
TY-57X	250 CT. (10 Ma.)	16/8/4	200MW
TY-27XT	500 CT. (2 Ma.)	500 CT.	10DBM
TY-28XT	500 CT. (2 Ma.)	200 CT.	10DBM
TY-45X	500 CT. (5 Ma.)	16/8/4	200MW
TY-49X	500 CT. (12 Ma.)	5000 CT.	30MW
T-41X	1000 (10 Ma.)	200 CT.	0DBM
TY-44X	1000 (10 Ma.)	16/8/4	200MW
TY-47X	2000 CT. (10 Ma.)	16/8/4	200MW
TY-55X	2000 CT. (2 Ma.)	500 CT.	200MW
TY-51X	2000 CT. (10 Ma.)	200 CT.	50MW
JAF-33	5000 CT.	5000 CT.	10DBM
T-33X	5000 CT.	5000 CT.	10DBM
TY-59X	5000 CT. (1 Ma.)	50000 CT.	200MW
T-42X	9800 (2 Ma.)	16	20DBM
TY-62X	10000 (2 Ma.)	4	20DBM
TY-56X	10000 (1 Ma.)	2000 CT.	50MW
TY-54X	15000 (1.5 Ma.)	200 CT.	100MW
TY-52X	20000 CT. (1 Ma.)	2000 CT.	100MW
TY-50X	125000	2000 CT.	40MW
TY-60X	200000	1000	—10DBM

†† MINIATURE AUDIO — "Trijets"

Type No.	Primary Impedance	Secondary Impedance	Max. Level-DBM	Freq. Resp.
T-1X	600/250/50	50000	0	60-15000
T-2X	600/250/50	250000	0	100-5000
T-3X	600/250/50	60000 CT.	0	60-15000
T-5X	30/12/4	50000	0	60-15000
T-11X	15000	50000	10	60-15000
T-12X	15000	60000 CT.	10	60-15000
T-13X	15000	95000 CT.	10	350-7000
T-20X	15000	600/250/50	10	60-15000
T-21X	30000	50	10	60-15000
T-22X	15000	600/250/50	10	350-7000
T-23X	20000 CT.	600/250/50	10	60-15000
T-31X	600/250/50	600/250/50	10	60-15000
T-33X	5000 CT.	5000 CT.	10	60-15000
T-101X	50 henries @ .75 Ma.			

†† JO SERIES — Hermetically Sealed

Type No.	Primary Impedance	Secondary Impedance	Max. Level-DBM	Freq. Resp.	Case
JO-1	600/250/50	50000	0	50-15000	JOA
JO-2	600/250/50	250000	0	150-7000	JOA
JO-3	600/250/50	60000 CT.	0	50-15000	JOA
JO-5	30/12/4	50000	0	50-12000	JOA
JO-11	15000	60000	10	50-15000	JOB
JO-12	15000	60000 Ct.	10	50-15000	JOB
JO-13	15000	95000 CT.	10	300-7000	JOB
JO-21	15000	600/250/50	10	50-15000	JOB
JO-22	15000	600/250/50	10	300-7000	JOB
JO-23	20000 CT.	600/250/50	10	50-15000	JOB
JO-31	600/250/50	600/250/50	10	50-15000	JOB
JO-101	50 h.-2 Ma.				JOB

††Low frequency loss will result from DC in windings other than where specified.

DC TO AC TRANSISTOR TRANSFORMERS

Type	Primary	Secondary		
• TY-75A	12v	115v	60cps	120 watts
• TY-76A	12v	115v	60cps	60 watts
• TY-468	28v	115v	400cps	60 watts

•New Item

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SEE TRIAD PRICE LIST ON PAGES 1397, 1398

TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

POWER COMPONENTS

HERMETICALLY SEALED

Combined PLATE and FILAMENT Transformers

Primary 115V — 50/60 cycle

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Filaments	F Dim. (Min.) Inches	Case
†HSM-201	500 CT.	20	6.3 CT.-2A.	1⅜	GA
HSM-203	600 CT.	50	6.3 CT.-2.5A. 5 -2A.	1⅜	JB
HSM-205	700 CT.	70	6.3 CT.-3A. 5 -3A.	1⅜	JA
HSM-207	700 CT.	120	6.3 CT.-5A. 5 -3A.	1⅜	KA
HSM-241	700 CT.- 70V. bias tap.	150	6.3 CT.-6A. 6.3-V. -2A. 5 -3A.	1⅜	LA
HSM-212	1000/ 800 CT.	150 (ch. in.) 117 (cd. in.)	6.3/5.4A. 6.3 CT.-4A. 6.3-V-4A.	1⅜	LA
HSM-245	800/ 700 CT. 70 V. bias tap.	200	6.3 CT.-6A. 6.3-V. -4A. 5 -6A.	1⅜	MA
HSM-216	1000/ 800 CT.	200 (ch. in.) 157 (cd. in.)	6.3/5-4A. 6.3 CT.-5A. 6.3-5A.	1⅜	MA
HS-247	800/ 700 CT. 70 V. bias tap.	300	6.3 CT.-8A. 6.3-V. -4A. 5 -6A.	1⅜	GP-15
HSM-218	1000/ 800 CT.	300 (ch. in.) 235 (cd. in.)	6.3/5-6A. 6.3 CT.-6A. 6.3-6A	1⅜	GP-15
HSM-219	(115/ 230 pri.) 760/ 1600 CT.	40/230 (ch. input)		Spcl.	GP-15

† Low flux density—for pre-amplifier service. All types electrostatically shielded.
GP-15 dimens. 4¾" x 5⅞" x 6⅝" high. Wt. approx. 22 lbs. Mtg. centers 3¾" x 4⅞".

Combined PLATE and FILAMENT Transformers

Primary 115V—400 cycle to operate 380-to 1500 cycles

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Filaments	Insul. Test Volt.	F Dim. (Min.) Inches	Case
HS-402	475 CT.	20	6.3 CT.-1.5A.	1500	2³⁄₃₂	AJ
HS-401	500 CT.	40	6.3 CT.-1A. 6.3-1A	1500	⅞	EB
HS-405	600 CT.	70	6.3 CT.-2A. 6.3-2A. *6.3-2A.	1500	1⅜	GA
HS-407	600 CT.	120	6.3 CT.-3.5A. 6.3-3.5A. *6.3-3A.	1500	1⅜	JB
HS-409	700 CT.	150	6.3 CT.-4A. *6.3-3A.	1500	1⅜	HA
HS-413	450 CT.	200	6.3 CT.-6A. 6.3 -6A. *6.3-4A.	1500	1⅜	JA
HS-415	800/ 600 CT.	200	6.3 CT.-6A. 6.3-6A. *6.3-6A.	2500	1⅜	KB
HS-417	800/ 600 CT.	300	6.3 CT.-6A. 6.3-6A. *6.3-6A.	2500	1⅜	LA

* Tapped for 5 volt rectifier use. All types electrostatically shielded.

	AF	AG	AH	AJ	JZ*
A	3/4	1	1-5/16	1-5/8	9/16 dia.
B	3/4	1	1-5/16	1-5/8	Round
*†Bw	1-3/64	1-3/32	1-11/32		
C	1-1/8	1-3/8	1-3/4	2-3/8	25/32
D	*27/32	*1-1/32	*1-11/32	*1-5/8	
F	5/8	3/4	7/8	7/8	
I	4/40	6/32	6/32	6/32	
Unit	1-1/4	2-1/2	5-1/4	11	.5
Wt.	oz.	oz.	oz.	oz.	oz.

POWER OUTPUT to Line and VC.
Hermetically Sealed

Type No.	Primary Impedance	Secondary Impedance	Max. Level-Watts	Freq. Resp.	Case
HS-71	10000 (10 Ma.)	600/150	2	150-15000	AH
HS-73	5000 (40 Ma.)	500/250/ 16/8/4	5	150-15000	AJ
HS-75	10000 CT. (50 Ma. bal.)	500/250/ 16/8/4	10	150-15000	EB
HS-77	9000 CT. (120 Ma. bal.)	500/250/ 16/8/4	25	150-15000	GA

LOW LEVEL AUDIO

HERMETICALLY SEALED
AUDIO INPUT Transformers

Type No.	Primary Imped.	Turn Ratio	Freq. Resp.	Max. Level DBM	Shld'g	Case
HS-1	600*/250*/ 150/62.5	1:11.3	20-20000	10	P-5	GP-4
HS-11	Same as above				P-1	GP-2
HS-3	600*/250*/ 150/62.5	1:14 overall	20-20000	10	P-5	GP-5
HS-4	Same as above				P-3	GP-4
HS-14	Same as above				P-1	GP-3
HS-15	600*/250*/ 150/62.5 (10 Ma.)	1:8 overall	30-20000	20	P-3	GP-5
HS-5	30-50	1:65.7	50-10000	0	P-5	GP-4
HS-8	600*/250*/ 150/62.5	1:14 overall	20-20000	20	P-1	GP-4

*Balanced center tap.

Low frequency loss will result from use of unbalanced DC in windings other than where specified.

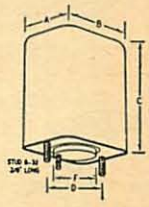
AUDIO INTERSTAGE Transformers

Type No.	Primary Imped.	Turn Ratio	Freq. Resp.	Max. Level Pri. Volts	Shld'g	Case
HS-23	15000	1:2.7	20-20000	15	P-3	GP-4
HS-25	15000	1:2.72 overall	20-20000	25	P-1	GP-4
HS-35	15000	1:2.72 overall	20-20000	20	P-1	GP-2
HS-27	20000/ 5000	1:1.72 overall	20-20000	50	P-1	GP-4
HS-29	20000/ 5000	1:2 overall	20-20000	20	P-5	GP-4
HSM-31	20000/ 5000	1:1 or 2:1	20-20000	240		FA
HS-32	15000 (6 Ma.)	1:2 overall	20-15000	20	P-1	GP-5

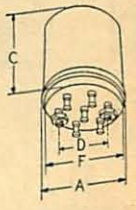
Low frequency loss will result from use of unbalanced DC in windings other than where specified.

See table below for shielding data.

HS Series



JO Series



SHIELDING

P-1—One nickel alloy high permeability shield — 45db. reduction in pickup.
P-3—Two nickel alloy shields interleaved with one heavy copper shading ring — 70db. reduction in pickup.
P-5—Three nickel alloy shields interleaved with two heavy copper shading rings— 95 db. reduction in pickup.

	GP-1	GP-2	GP-3	GP-4	GP-5
A	⅞	1⅛	1¼	1⅞	1⅝
B	1⅛	1¼	1½	1¾	2
Bw	1⅛	1¹⁄₃₂	1⅛		
C	1¹³⁄₁₆	2¼	2⅜	2½	2¾
D	1³⁄₃₂	1³⁄₁₆	1¹⁵⁄₃₂	1½	1½
F	¾	¾	¹⁵⁄₁₆	¹⁵⁄₁₆	¹⁵⁄₁₆
Wt.	3 oz.	5½ oz.	8 oz.	12 oz.	17 oz.

	JOA	JOB
A	¹⁵⁄₁₆ dia.	¹⁵⁄₁₆ dia.
B	Round	Round
C	1¹³⁄₃₂	1²⁵⁄₃₂
D	⅝	⅝
F	⅞	⅞
Unit Wt.	2 oz.	2½ oz.

	AH	AJ	EA	EB	FA	FB	GA
A	1⅝	1⅝	1¹³⁄₁₆	1¹³⁄₁₆	2⅛	2⅛	2⅜
B	1⅝	1⅝	1¹⁵⁄₁₆	1¹⁵⁄₁₆	2⅝	2⅝	2¾
C	1¾	2⅜	2¾	2⅞	3⅛	2½	3¹³⁄₁₆
D	1¼	1⅜	1⅜	1⅜	1¹¹⁄₁₆	1¹¹⁄₁₆	2⅛
E		1⅜	1¼	1½	1⅞	1⅞	1¾
G	⅜	⅜	⅜	⅜	⅜	⅜	⅜
I	6-32	6-32	6-32	6-32	6-32	6-32	6-32
Wt. lbs.	4 oz.	9 oz.	1	15 oz.	1¾	1½	2

	GB	HA	HB	JA	JB	KA	KB
A	2⅜	2⅝	2⅝	3⅛	3⅛	3⅜	3⅜
B	2¾	3⅛	3⅛	3⅝	3⅝	3¹⁵⁄₁₆	3¹⁵⁄₁₆
C	2¹³⁄₁₆	4¼	3¹⁄₁₆	4⅞	3⅞	5¼	4⅝
D	2⅛	2¹³⁄₆₄	2¹³⁄₆₄	2⅝	2⅝	3	3
E	1¾	1³⁵⁄₆₄	1³⁵⁄₆₄	2⅛	2⅛	2⅞	2⅞
G	⅜	⅜	⅜	⅜	⅜	½	½
I	6-32	8-32	8-32	8-32	8-32	10-32	10-32
Wt. lbs.	1¾	2½	2¼	4½	4	7¾	7

	LA	LB	MA	MB	NA	NB
A	3¹¹⁄₁₆	3¹¹⁄₁₆	4	4	4⅝	4⅝
B	4⅝	4⅝	4¹¹⁄₁₆	4¹¹⁄₁₆	5¹⁄₁₆	5¹⁄₁₆
C	5⁹⁄₁₆	4½	6	4¹⁵⁄₁₆	6¹³⁄₁₆	5½
D	3⅝	3⅝	3¹¹⁄₁₆	3¹¹⁄₁₆	4¹⁄₁₆	4¹⁄₁₆
E	2¹¹⁄₁₆	2¹¹⁄₁₆	3	3	3⅝	3⅝
G	½	½	⅝	⅝	⅝	⅝
I	10-32	10-32	¼-20	¼-20	¼-20	¼-20
Wt. lbs.	9¼	8½	13½	12½	18	16

•New Item * Not in conformance with MIL-T-27A.

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TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

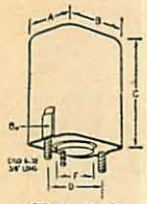
AUDIO LOW LEVEL
OUTPUT, MIXING, MATCHING, BRIDGING

Type No.	Primary Imped.	Secondary Impedance	Freq. Resp.	Max. Level DBM	Shld'g	Case
HS-50	15000	600*/250*/ 150/62.5	20-20000	26	P-3	GP-4
HS-60	15000	600*/250*/ 150/62.5	20-20000	10	P-1	GP-2
HS-61	15000 (5 Ma.)	600*/250*/ 150/6.25	50-15000	20	P-1	GP-5
HS-52	20000/ 5000	600*/250*/ 150/62.5	20-20000	26	P-1	GP-4
HS-54	20000/ 5000	600*/250*/ 150/62.5	20-20000	10	P-5	GP-4
HS-56	600*/250*/ 150/62.5	600*/250*/ 150/6.25	10-30000	20	P-3	GP-4
HS-66	600*/250*/ 150/62.5	600*/250*/ 150/6.25	10-30000	20	P-1	GP-3
HS-58	600*/250*/ 150/62.5	600*/250*/ 150/6.25	20-30000	15	P-3H	GP-5

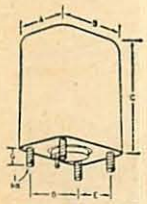
* Balanced center tap.

Low frequency loss will result from use of unbalanced DC in windings other than where specified.

See table on Page N-771 for shielding data.



GP 1, 2, 3



MIL-T-27A CASE

POWER COMPONENTS

HERMETICALLY SEALED

FILAMENT Transformers, 50/60 cycle

Type No.	Primary Volts	Secondary Volts	Secondary Amperes	Insulation Test Voltage	** Case
HSM-223	115	6.3	0.6	1500	AJ
HSM-225	105-115-125	6.3 CT.	2	1500	EA
HSM-226	105-115-125	6.3 CT.	3.6	1500	FA
HSM-234	105-115-125	6.3 CT. 6.3	10 10	2500	KA
HSM-227	105-115-125	†6.3 CT. 6.3	3 3	2500	GA
HSM-229	105-115-125	6.3 CT.	8	2500	JB
HSM-230	105-115-125	24 CT.	0.8	1500	FA
HSM-236	105-115-125	†12.6 CT. 12.6	2 2	2500	JB
HSM-228	105-115-125	†6.3 CT. 6.3	6 6	2500	JA
HSM-231	105-115-125	6.3 CT. 5 CT.	5 3	2500	JB
HSM-232	105-115-125	2.5 CT.	10	7500	HA
HSM-235	105-115-125	2.5 CT. 10 CT.	10 10	7500 2500	MA

† Series or parallel connections.
** See case chart page N-771.

Case A

PL-4 PL-5

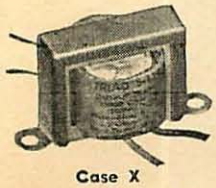
FILAMENT Transformers, 380/1500 cycle

Type No.	Primary Volts	Secondary Volts	Secondary Amperes	Insulation Test Voltage	** Case
HS-436	115	6.3 CT.	1	1500	AH
HS-425	105-115-125	6.3 CT.	2	1500	AJ
HS-427	105-115-125	6.3 CT.	5	1500	EA
HS-438	105-115-125	24 CT.	1.5	1500	EA
HS-433	105-115-125	*6.3 CT. 6.3	5 5	2500	FA
HS-435	105-115-125	*6.3 CT. 6.3 †6.3/5	3.5 3.5 3	2000	FA
HS-441	105-115-125	*5 CT. 5 2.5 CT.	10 10 10	2000 7500	HA
HS-443	105-115-125	*12.6 CT. 12.6	0.8 0.8	1500	AJ
HS-442	57.5-99.7-115-120 Single phase.	12.6 CT. 12.6	2 2	1500	EA

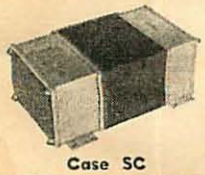
Two HS-442's can be used, 115 volt 3 phase to 26 volt 2 phase, Scott-connected.

* Series or parallel connection.
† 5 volt tap for filament type rectifiers.
** See case chart page N-771.

PL-6



Case X



Case SC

HIGH FIDELITY OUTPUT

HIGH LEVEL OUTPUT — Hermetically Sealed

Type No.	Primary Impedance	Secondary Impedance	Freq. Resp.	Max. Level Watts	F Di. Min. In.	Case
HSM-79	20000 CT. (20 Ma.) or 5000 (40 Ma.)	16/8/4	50-25000	5	1⅜	FA
HSM-80	20000 CT. (20 Ma.) or 5000 (40 Ma.)	500/ 250 CT. or 125/62.5	50-25000	5	1⅜	FA
HSM-81	8000 CT. Split primary.	16/8/4	7-50000	15	1⅜	JB
HSM-82	8000 CT.	500/ 250/125	7-50000	15	1⅜	JB
†HSM-181	8000/ 2000 CT. Split primary.	16/8/4	7-50000	15	1⅜	JB
†HSM-182	8000/ 2000 CT. Split primary.	500/ 250/125	7-50000	15	1⅜	JB
HSM-84	5000 CT.	16/8/4	7-50000	20	1⅜	JB
HSM-85	5000 CT.	500/ 250/125	7-50000	20	1⅜	JB
†HSM-189	10000/ 2500 CT. Split primary.	16/8/4	7-50000	25	1⅜	KB
†HSM-190	10000/ 2500 CT. Split primary.	500/ 250/125	7-50000	25	1⅜	KB
†HSM-186	6600 CT. Split primary.	16/8/4	7-50000	25	1⅜	KB
†HSM-187	6600 CT. Split primary.	500/ 250/125	7-50000	25	1⅜	KB
HSM-91	2500 CT.	16/8/4	7-50000	50	1⅜	LA
HSM-94	4500 CT.	16/8/4	7-50000	55	1⅜	LA
HSM-95	4500 CT.	500/ 250/125	7-50000	55	1⅜	LA
†HSM-192	4000 CT. Split primary.	16/8/4	7-50000	65	1⅜	LA
†HSM-193	4000 CT. Split primary.	500/ 250/125	7-50000	65	1⅜	LA
HS-97	6600 CT.	500/ 250/125	10-30000	125	Spcl.	Spcl.

† Williamson type circuit.
Proper taps on primary for screen operation.

HIGH LEVEL OUTPUT

Type No.	Primary Impedance	Secondary Impedance	Output Watts
S-34X	4000 CT.	32/16/8	7.5
S-31A	8000 CT.	16/8/4	15
S-32A	8000 CT.	500/250/125	15
†S-142A	8000 CT.	16/8/4	15
S-35A	5000 CT.	16/8/4	20
S-36A	5000 CT.	500/250/125	20
†S-146A	6600 CT.	16/8/4	25
†S-148A	10000 CT.	16/8/4	25
S-42A	4500 CT.	16/8/4	50
†S-152A	4000 CT.	16/8/4	65
SR-45Z*	4000/2000/ 1000/500	16/8/4	10
S-46A	2000/1000/ 500/250	16/8/4	20

† Williamson type circuit. Proper taps on primary for screen operation, leads out both end bells.
* Replaces S-45Z.

Note: Last letter of Type No. denotes case style

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TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

LINE POWER

ISOLATION Transformers, 50/60 cycles

(See page N-776 for 380/1500 cycle isolation transformers)

Type No.	V. A. Output	Input Volts	Output Volts
N-51X	35	115	115
N-68X	50	230/115	115
N-53M	85	115	115
N-54M	150	115	115
N-67A	150	230/115	115
N-55M	250	115	115
N-66A	250	230/115	115
N-57M	500	115	115
N-59M	1000	115	115
†N-52M	350	95 to 130 (in 5V steps)	115
†N-56M	150	95 to 130 (in 5V. steps)	115
†With switch and meter for primary voltage control. Detachable cord.			
•N-69A	50	230/115	115
•N-70A	150	230/115	115
•N71-A	300	230/115	115

STEPDOWN Autoformers, 50/60 cycles

Type No.	V. A. Output	Input Volts	Output Volts
N-1X	50	230	115
N-3M	85	230	115
N-4M	150	230	115
N-5M	250	230	115
N-7M	600	230	115
N-9M	1250	230	115
N-11M	2000	230	115
N-34X	150	95/105/115/125/135	115
†N-35M	350	95 to 130 (in 5V. steps)	115
†N-50M	500	95 to 130 (in 5V. steps)	115
With switch and meter.			

† M case with switch for primary voltage control and detachable cord.

FILTER REACTORS

Type No.	Current DC Ma.	Inductance *Henries	Resistance Ohms	Insulation Test Voltage
HSM-301	20	30	1000	1500
HSM-302	20	14	550	1500
HS-331	40	4	375	1500
HS-303	50	12	385	1500
HS-333	70	3	225	1500
HSM-305	70	15	300	2500
HS-335	120	3	150	1500
HSM-307	120	15	185	2500
HSM-309	150	9	115	2500
HS-339	200	3	105	2000
HSM-315	200	10	100	2500
HS-341	300	2	48	2000
HSM-319	300	10	85	2500

•New Item * Minimum Inductance—20%

PULSE

Type No.	Pulse Voltage per Winding	Pulse Duration—us	Load Impedance —Ohms
PL-4	100-100	.54 to .66	500*
PL-5	100-100-100	.36 to .54	2000*
PL-6	100-100-100	.36 to .54	2000*

* As blocking oscillator in Triad circuit. Can be used with lower impedances and higher peak power at lower duty cycle.

INSTRUMENT POWER

Instrument POWER SUPPLY Transformers

Intelligent design and construction of measuring instruments involves consideration of many factors normally neglected in electronic circuits. Regulation of power supply voltages, limitation of external magnetic fields by minimum flux density, multiple static shields to limit capactive coupling, multiple filaments where tubes must operate at different potentials, all become necessary to obtain peak performance. The transformers on this page are a series of special designs which have been developed for instrument design.

For PREAMPLIFIERS, VTVM, etc.

Primary 115 volts — 60 cycles

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Filament Windings Volts and Amperes
R-68A	800 CT.	30	5V.-2A, 6.3V-1.2A, 6.3V-1.2A.
R-2C	135	15	6.3V-.9A.
R-23B	250 CT.	22	6.3-.8A. 15.5/12.6V-.6A.
R-3A	500 CT.	20	6.3V CT.-2A.
R-29A	230 CT.	40	6.3V.-1.5A.
R-30X	135	50	6.3V.-1.5A.
R-54X	115	15	6.3V.-.6A.
R-56A	130	20	0/15/22.5/30V-6A.
R-73B	135	200	6.3V CT.-5.5A.

CATHODE RAY Tubes

Primary 115 volts — 60 cycles

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Filament Windings Volts and Amperes	
R-41C	440-0-440-1250.	125/5	*6.3V.-.6A. ‡2.5V.-1.75A.	‡2.5V.-1.75A. 5V.-3A.
R-45C	400-0-400-800.	30/5	*6.3V.-.6A. 6.3 CT.-3A. ‡5V.-2A	6.3V.-1A. 5V.-2A.
R-43C	1600	3	*6.3/5/2.5V.-1A. ‡6.3/5/2.5V.-3A.	

* Statically shielded and insulated for full plate voltage.
† Insulated for full plate voltage.

For REGULATED POWER SUPPLIES

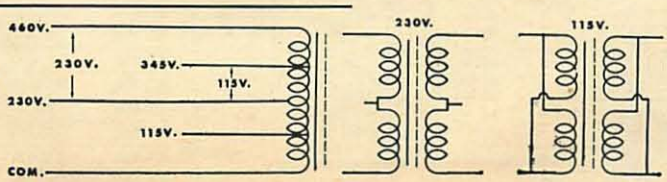
Primary 115 volts — 60 cycles

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Filament Windings Volts and Amperes	
R-70A	880 CT.	75	6.3V.-.6A. 6.3V.-.3A.	6.3V.-.9A. 6.3V.-3A.
R-26A	880-720 CT.	200	6.3 CT.-8A. 6.3V.-1A.	6.3V.-3A. 5V.-3A.
R-28A	1250 CT.	300	6.3 CT.-8A. 6.3V.-3A.	6.3V.-3A 5V.-6A.
R-46A	1250 CT. 130 (Bias winding)	350 50	5V.-4A.	6.3V.-4A. 6.3V.-1A. 6.3V.-1A.
R-46A will supply 550 V. D.C. using 2 5R4G rectifier tubes, choke input. Will also supply 130 V. for bias using Selenuim rectifier. Sufficient filament windings to regulate screen voltages.				
R-27A	1500 CT.	400	5V.-6A.	6.3V.-3A. 6.3V.-8A.

UNIVERSAL

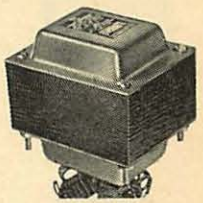
Isolation, Autoformer, Voltage Control 50/60CPS

Type No.	V.A. (Isolation)	V.A. (Autoformer)
N-64AC	500	1000
N-62AC	1000	2000
N-60SC	2000	4000

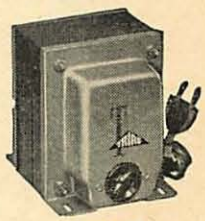


Connection as Autoformer

Connection as Isolation Transformer

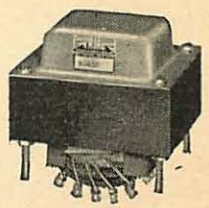


Case B



Case M

Case M with Meter



Case C

Case AC

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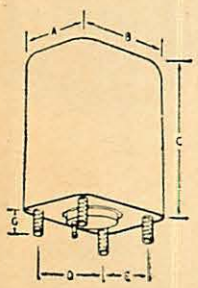
TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

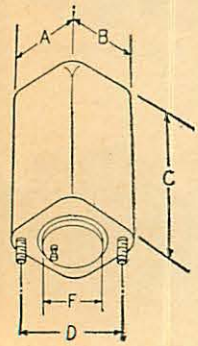
TOROIDS

A

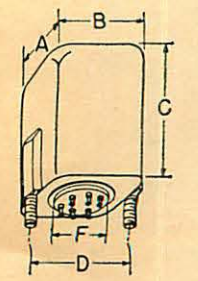
TOROIDS



EK

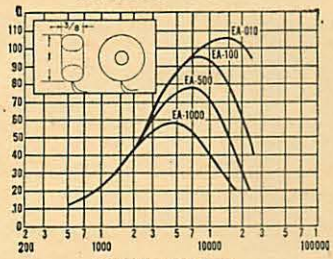


EA-EM



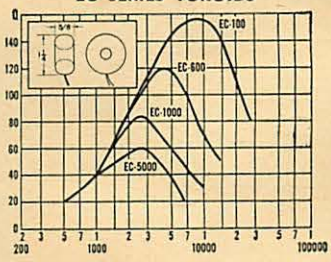
EC-ET

EA SERIES TOROIDS



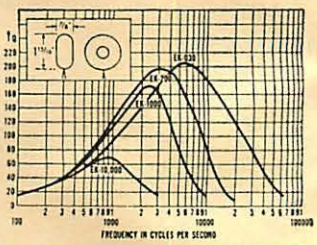
Type No.	Ind.	Res-Ohms Average	D.C.-Ma. for 5% Ind. drop
EA-001	1 mh	.40	270
EA-002	2 mh	.58	192
EA-003	3 mh	.73	157
EA-004	4 mh	.85	135
EA-005	5 mh	1.20	121
EA-007	7 mh	1.42	102
EA-010	10 mh	2.20	86
EA-015	15 mh	3.40	70
EA-020	20 mh	5.05	60
EA-025	25 mh	5.80	54
EA-030	30 mh	7.90	50
EA-040	40 mh	11.40	43
EA-050	50 mh	12.80	38
EA-070	70 mh	19.00	32
EA-100	100 mh	30.00	27
EA-150	150 mh	46.00	22
EA-200	200 mh	52.00	19
EA-250	250 mh	73.00	17
EA-300	300 mh	80.00	16
EA-400	400 mh	115.00	14
EA-500	500 mh	126.00	12
EA-600	600 mh	178.00	11
EA-700	700 mh	193.00	10
EA-1000	1000 mh	297.00	8.6

EC SERIES TOROIDS



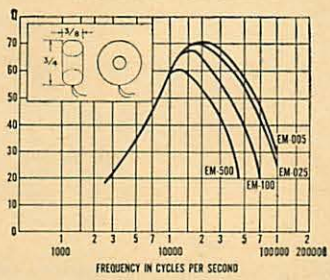
Type No.	Ind.	Res-Ohms Average	D.C.-Ma. for 5% Ind. drop
EC-001	1 mh	.40	520
EC-002	2 mh	.56	368
EC-003	3 mh	.70	300
EC-004	4 mh	.82	260
EC-005	5 mh	.92	233
EC-007	7 mh	1.05	195
EC-010	10 mh	1.30	165
EC-015	15 mh	1.60	134
EC-020	20 mh	1.85	116
EC-030	30 mh	2.85	95
EC-040	40 mh	4.20	82
EC-050	50 mh	4.60	74
EC-070	70 mh	7.00	62
EC-100	100 mh	8.00	52
EC-200	200 mh	25.00	37
EC-250	250 mh	28.00	33
EC-300	300 mh	38.20	30
EC-400	400 mh	44.00	26
EC-500	500 mh	63.50	23
EC-600	600 mh	71.00	21
EC-700	700 mh	80.00	19.5
EC-1000	1000 mh	113.00	16.5
EC-1500	1500 mh	175.00	13.5
EC-2000	2000 mh	243.00	11.6
EC-3000	3000 mh	370.00	9.5
EC-4000	4000 mh	435.00	8.2
EC-5000	5000 mh	645.00	7.4
EC-7000	7000 mh	780.00	6.2
EC-10000	10000 mh	1190.00	5.2

EK SERIES TOROIDS



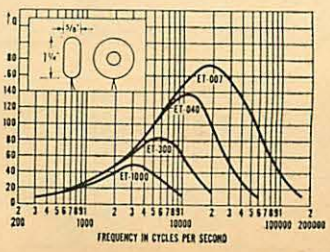
Type No.	Ind.	Res-Ohms Average	D.C.-Ma. for 5% Ind. drop
EK-010	10 mh	.92	262
EK-020	20 mh	1.30	184
EK-030	30 mh	1.65	150
EK-040	40 mh	1.90	130
EK-050	50 mh	3.50	116
EK-060	60 mh	4.00	106
EK-080	80 mh	4.60	92
EK-100	100 mh	5.20	82
EK-120	120 mh	5.50	75
EK-150	150 mh	6.20	67
EK-200	200 mh	7.50	58
EK-250	250 mh	10.30	52
EK-300	300 mh	12.00	47
EK-400	400 mh	16.50	41
EK-500	500 mh	23.60	37
EK-700	700 mh	30.00	31
EK-1000	1000 mh	45.00	26
EK-2000	2000 mh	100.00	18.4
EK-3000	3000 mh	151	15
EK-4000	4000 mh	175	13
EK-5000	5000 mh	250	11.6
EK-7000	7000 mh	380	9.8
EK-10000	10000 mh	500	8.2
EK-20000	20000 mh	1000	5.8
EK-30000	30000 mh	1500	4.7
EK-40000	40000 mh	1850	4.1

EM SERIES TOROIDS



Type No.	Ind.	Res-Ohms Average	D.C.-Ma. for 5% Ind. drop
EM-001	1 mh	2.8	150
EM-002	2 mh	4.1	108
EM-003	3 mh	5.1	87
EM-004	4 mh	6.0	76
EM-005	5 mh	6.8	68
EM-007	7 mh	8.2	57
EM-010	10 mh	10	48
EM-015	15 mh	12.5	39
EM-020	20 mh	14.5	34
EM-025	25 mh	16.5	30
EM-030	30 mh	18	27.6
EM-040	40 mh	27	24
EM-050	50 mh	30	22
EM-060	60 mh	40	19.5
EM-070	70 mh	43	18
EM-100	100 mh	66	15
EM-150	150 mh	100	12.5
EM-200	200 mh	115	11
EM-250	250 mh	167	9.6
EM-300	300 mh	180	8.8
EM-400	400 mh	265	7.6
EM-500	500 mh	295	7
EM-700	700 mh	440	5.8
EM-1000	1000 mh	650	4.8

ET SERIES TOROIDS



Type No.	Ind.	D.C.-Ma. Max.	D.C.-Ma. for 5% Ind. drop
ET-001	1 mh	.57	680
ET-002	2 mh	.82	480
ET-003	3 mh	.98	396
ET-004	4 mh	1.10	342
ET-005	5 mh	1.35	306
ET-007	7 mh	1.50	260
ET-010	10 mh	2	217
ET-015	15 mh	3	177
ET-020	20 mh	4.3	153
ET-025	25 mh	4.8	137
ET-030	30 mh	6.9	125
ET-040	40 mh	7.2	108
ET-050	50 mh	8	97
ET-060	60 mh	15.5	88
ET-070	70 mh	16.8	82
ET-100	100 mh	26.0	68
ET-150	150 mh	38.5	56
ET-200	200 mh	44.5	48
ET-250	250 mh	64	43
ET-300	300 mh	72	40
ET-400	400 mh	103	34
ET-500	500 mh	118	31
ET-700	700 mh	173	26
ET-1000	1000 mh	245	22

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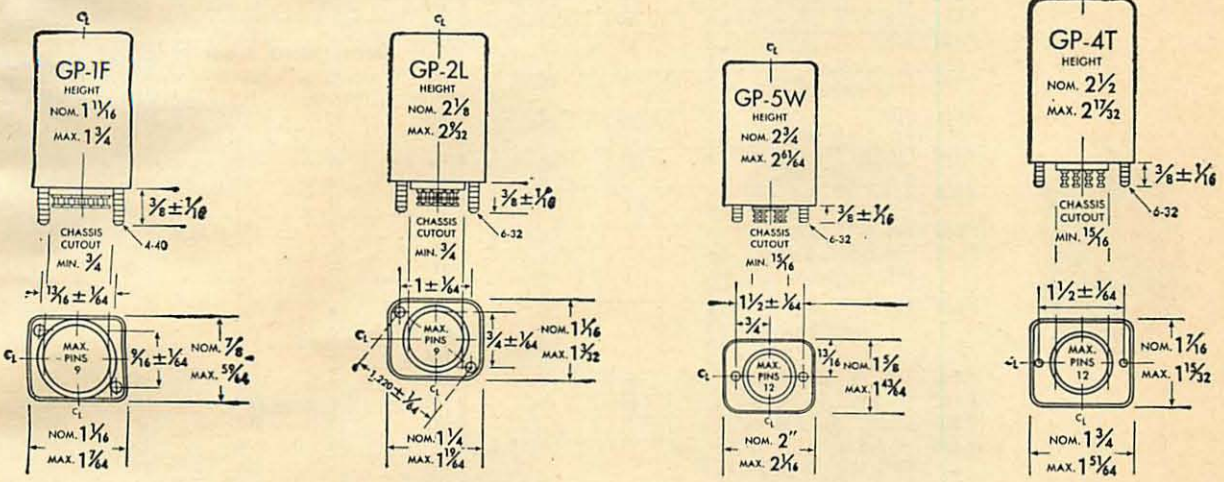
TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

GEOFORMERS

For Geophysical and Low Frequency Instrumentation.



LOW FREQUENCY TRANSISTOR TRANSFORMERS

Type No.	Impedance Ohms Pri.	Impedance Ohms Sec.	Turns Ratio	Min. pri. Ind. @ 100MV–60 cy. With No Unbalanced D.C. Current	D. C. Resistance (Ohms) Pri.	D. C. Resistance (Ohms) Sec	Frequency Response in Cycles Primary Signal of 1 Volt Unbalanced D.C. Secondary Current of 1 Ma. –3DB	1 Ma. –1DB	2 Ma. –3DB	2 Ma. –1DB	3 Ma. –3DB	3 Ma. –1DB	5 Ma. –3DB	5 Ma. –1DB	Shielding	Case Mtg.	Wt.
G-18	1000 or 250	125 or 31	2:83:1	60.	500	44	5 to 20000	8 to 7000	5 to 20000	8 to 7000	6 to 20000	9 to 7000	7 to 20000	10 to 7000	P1-H	GP-1F	3.2 oz.
G-19	1000 or 250	1000 or 250	1:1	65.	540	230	12 to 7000	15 to 3800	12 to 7000	15 to 3800	12 to 7000	15 to 3800	20 to 7000	40 to 3800	P1-H	GP-2L	5¼ oz.
G-30	1000 CT.	2500 CT.	1:1.58	20.	350	1800	20 to 8000	40 to 4200	22 to 8000	45 to 4200	40 to 8000	75 to 4200	70 to 8000	160 to 4200	P1	GP-1F	3.2 oz.

CHOPPER INPUT TRANSFORMERS - 30 to 500 cycle

Triad's new Chopper Input Transformers are manufactured under the same rigid high quality control standards as the Triad Input Transformers, plus the addition of an extremely close balance between the two halves of the primary winding. One half of the primary is balanced to the other half in both inductance and "Q". Cores are specially treated to eliminate noise in the microvolt range of input signals. Adjustment is at 60 cycles and, since input impedances are kept extremely high and the windings are not tuned, the chopper frequency may be 30 to 500 cycles. Magnetic and electrostatic shielding can be varied to meet customer's requirements.

Types for tube or transistor input are available. In addition to the standard types listed below, many types are currently being supplied to customer's specifications. We invite your inquiry on your special requirements.

Type No.	Primary Impedance in Ohms	Secondary Impedance in Ohms	Turns Ratio Full Pri. to Full Sec.	Turns Ratio ½ Pri. to Full Sec.	Minimum Pri. Ind. (of Full Pri.) @ 1.V-60~	Maximum Pri. Volts (Full Pri.) @ 60~	D.C. Resistance Full Primary	D.C. Resistance Secondary	Magnetic Shielding	Case	Weight
G-20	10000 CT. or 2500	640000 CT.	1:8	1:16	120	25.	370	21000	P5-H	GP-4T	11½ oz.
G-21	200000 CT.	12500 CT.	4:1	2:1	1200	84.	4000	1300	P1-H	GP-2L	5¼ oz.
G-22	50000 CT.	800000 CT.	1:4	1:8	1000	90.	2200	19000	P5-H	GP-5W	1 lb.
G-23	40000 CT.	1000 CT.	6.32:1	3.16:1	1000	75.	4400	160	P1-H	GP-2L	5¼ oz.
G-24	40000 CT. or 10000 CT.	40000 CT.	1:1	.5:1	400	1.95	1625	1625	P5	GP-5W	1 lb.
G-25	40000 CT. or 10000 CT.	10000 CT.	2:1	1:1	800	70.	3200	2200	P1-H	GP-2L	5¼ oz.

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TRIAD TRANSFORMER CORP.

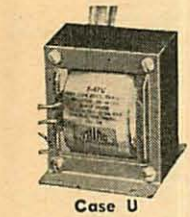
DIVISION OF LITTON INDUSTRIES

SELENIUM RECTIFIER Transformers
Primary 60 cycles

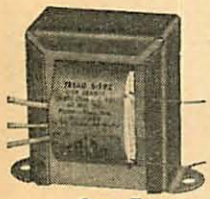
These transformers are for use with Selenium rectifiers. Rectifiers not included.

Type No.	Primary Volts	Secondary AC Volts	Secondary Amperes RMS	Half Wave Volts DC	Full Wave Volts DC
F-47U	115	17-18	3	6-7	13-14
F-48U	115	17-18	6	6-7	13-14
F-49U	115	36 36	3 3	13	26
F-60U	115	6.5-13-19.5-26	3 (int.)	9	18
F-61U	115	24-27-30 33-36	3	13	26
F-67U	110-120	24-27-30-33-36	8	13	26
F-63U	115	8-9 8-9	2 2		6-7
F-64U	115	7-8-9	7		6-7
F-62U	105-115-125	9-9-9-9	10 ea. wdg.		6-7 ea. wdg.
F-68U	115	9 CT. 9 9 9	3.5 3.5 3.5 3.5		6-7 ea. wdg.
F-65U	110-120	140-150-160	.75	60	115
F-66U	110-120	140-150-160	2.5	60	115
*F-79U	115	24-26-28-30	15	—	22.8
•F-80U	tapped for mult. sec.	12 to 18 or 24 to 36CT	40 20		
•F-84AC	230-115	24CT or 12CT	10 20		
•F-90X	115 tapped	40CT-20CT-10	100ma		
•F-91X	115 tapped	40CT-20CT-10	300ma		
•F-92A	115 tapped	40CT-20CT-10	1 amp		
•R-93A	115 (voltage doubler circuit)	6.3CT	6 150-160-170		(500ma)

* Replaces F-69U



Case U



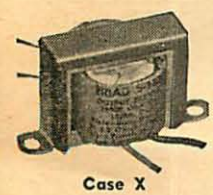
Case Z

FILAMENT Transformers, Single Secondary
Primary 115 volts — 60 cycles

Type No.	Secondary Volts	Secondary Amperes	Test Volts
F-1X	2.5 CT.	3	1500
F-72Z	2.5 CT.	5	7500
F-6X	2.5 CT.	6	2500
F-3X	2.5 CT.	10	3000
F-5U	2.5 CT.	10	7500
F-71U	2.5 CT.	10	10000
F-7X	5 CT.	3	1500
F-8X	5 CT.	6	1500
F-9A	5.2 CT.	13	1500
F-10U	5 CT.	14	10000
F-9U	5.2 CT.	13	1500
F-11U	5.2 CT.	24	1500
F-13X	6.3	.6	1500
F-14X	6.3 CT.	1.2	1500
†F-52X	6.3	1.2	5000
†F-51X	6.3/5	2	5000
†F-53X	6.3	4	5000
F-16X	6.3 CT.	3	1500
F-18X	6.3 CT.	6	1500
F-18A	6.3 CT.	6	1500
F-21A	6.3 CT.	10	1500
F-22A	6.3 CT.	20	2000
F-23U	10 CT.	7	1500
F-25X	12.6 CT.	1.5	1500
F-44X	12.6 CT.	2	1500
F-26X	12.6 CT.	2.5	1500
•F-45X	24 CT	1	1500
F-41X	25.2 CT.	2.2	1500
F-40X	26.8 CT	1	1500
F-50X	Filament line transformer Pri. 6.3V/5V Sec. 6.3/5V 2A		5000
•F-83A	12.6 CT. 12.6 CT.	5 5	1500

† Low capacity—High voltage for damper tube operation.
• New Item

Case AL



Case X

CHOKES SWINGING Filter REACTORS

Type No.	Inductance Henries	Current Ma.	Resistance Ohms	Test Volts RMS
C-31A	25/5	20/200	150	2500
C-33A	25/5	30/300	105	3000
C-32AL	20/4	35/350	105	5000
C-35A	20/4	40/400	60	3000
C-39A	25/5	50/500	65	3000
C-38AL	25/5	50/500	65	5000

SMOOTHING Filter REACTORS

Type No.	Inductance Henries	Current Ma.	Resistance Ohms	Test Volts RMS
C-30X	50	15	3500	1500
C-2X	2	15	70	1500
C-1X	15	20	1000	1500
C-3X	10	50	500	1500
C-4X	4	50	360	1500
C-6X	5	65	330	1500
C-5X	12	75	390	1500
C-8X	7	75	240	1500
C-7X	10	90	270	1500
C-9X	4	90	100	1500
C-11X	6	110	160	1500
C-10X	9	125	250	1500
C-12X	6	160	165	1500
C-12A	6	160	165	1500
C-13X	3	160	75	1500
C-14X	6	200	150	1500
C-14A	6	200	150	1500
C-16A	10	200	150	2500
C-21X	1.5	225	65	1500
C-15X	4	250	100	1500
C-15A	4	250	100	1500
C-23X	1.2	260	45	1500
C-24X	1	200	50	1500
C-27X	.7	290	25	1500
C-17X	1.5	300	40	1500
C-18A	8	300	90	2500
C-19A	10	300	105	3000
C-25A	2.6	310	60	1500
C-42AL	8	350	105	5000
C-20A	6	400	60	3000
C-22A	10	500	65	3000
C-45AL	10	500	65	5000
C-40X	.32	600	10	1500
C-47U	.3-.075	1A-2A	3-.75	1500
C-48U	.08-.02	2.5A-5A	.57-.143	1500
C-49U	5A-10A	.19.05	.032-.008	1500
•C-80U	.024-006	20A-40A	.096-.024	1500

FILAMENT Transformers, Multiple Secondary
Primary 115 volts — 60 cycles

Type No.	Secondary Volts and Amperes		Test Volts RMS
F-27U	10 CT.-10A.	2.5 CT.-10A.	1500 7500
F-30A	5 CT.-3A.	6.3 CT.-8A.	1500
F-32A	6.3 CT.-3A.	6.3 CT.-3A.	1500
F-34A	6.3 CT.-1.75A. 6.3V.-1.75A.	6.3V.-1.75A. 6.3V.-1.75A.	1500
F-36A	6.3 CT.-3.5A. 6.3V.-3.5A.	6.3V.-3.5A. 6.3V.-3.5A.	1500
F-38A	6.3 CT.-5A. 6.3V.-1A. 5V.-4A.	6.3V.-5A. 5 CT.-2A.	1500
F-42A	12.6 CT.-2.5A.	12.6-2.5A.	1500

ISOLATION Transformers
Primary 115V—400 cycle to operate 380 to 1500 cycles

Type No.	Secondary Volts	Amp.	V. A.	F Dim. (Min.) Inches	Case
HS-470	115	.35	40	7/8	EA
HS-472	115	1.4	160	7/8	GA
HS-474	115	2.6	300	7/8	JA

60 cycle — hermetically sealed

Type No.	secondary volts	amp.	V.A.	F dim. (Min.) inches	Case
•HSM-270	105-115-125	.4	50	7/8	JB
•HSM-271	105-115-125	1	125	7/8	KA
•HSM-272	105-115-125	2	250	1 3/8	NB

All isolation transformers electrostatically shielded.
• New Item

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TRIAD TRANSFORMER CORP.

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AUDIO
Low Level Input

Type No.	Application	Frequency Response	Primary Impedance	Turn Ratio
*A-7J	voice coil to grid	300-3000	3.2	124
A-9J	line or mike to grid	30-15000	600/250/50	12
A-10J	line to grid	30-15000	600/150 split wdgs.	10.1
•A-11J	line or mike to grid 60-80DB shielding	30-15000	600/250/50	10
•A-12J	same as A-11J	30-15000	600/150 split windings	10
•A-13J	line to transistor or line to line (70 db Shldg)	30-15000	600-200CT 50	
A-40J	par. fed 6J5 or 6SN7 plate to P.P. grids	30-15000	15000	2.76
•A-41J	same as A-40J 8ma DC in primary			
A-55J	par. fed 6J5 or 6SN7 to line	30-15000	15000	2.5
A-57J	line to line	30-15000	600/250/50	1
A-65J	par. fed 6J5 or 6SN7 to line	30-15000	15000	5
•A-66J	same as A-65J— 8 ma DC in primary	30-15000	15000	5
A-67J	line to line	30-15000	600/150 split windings	1
•A-68J	pp plate to line 8ma DC in primary	30-15000	30000CT	5
A-75J	Audio choke — 15 Henries			
•A-77J	Audio choke — dual winding	200 henries - 5 ma DC 100 henries - 10 ma DC		
•A-78J	output pp transistors to line	30-15000	2000CT	
•A-79J	Transistor interstage 10ma in primary	40-15000	1000	

*A-7J has 2 stud mounting, all others have single hole 3/8" mounting.

• new item

Triad "J" series transformers closely approach the electrical performance of the "HS" series while eliminating or modifying mechanical features which increase the cost. Careful design, taking advantage of the flexibility of the "J" series units, will result in low level amplifiers which will in every way meet broadcast quality specifications.

AUDIO INPUT Transformers
Line or Microphone to Grid

Type No.	Application	Frequency Response	Primary Impedance	Turn Ratio
A-1X	Line or single button mike to grid.	300-3000	100	31.4
A-3X	Line or D.B. mike to grid.	300-3000	400 CT.	15.8
A-4X	Line to grid.	300-3000	500/200/ 67.5 CT.	12
A-5X	Single button mike to p.p. grids—Hi-gain.	300-3000	100	84
A-6X	Speaker V.C. to grid.	300-3000	8/3.2	79

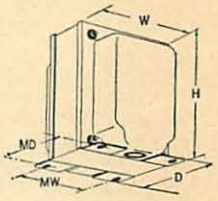
AUDIO OUTPUT Transformers
Line to Voice Coil

Type No.	Primary Impedance	Output Imped.	Output Watts	Freq. Resp.
S-23X	50 (autoformer).	3.2	3	300-3000
S-26X	500/50 (autoformer).	3.2	3	300-3000
S-66X	500 (autoformer).	16/8/4	3	100-5000
S-76Z	250/125/62.5/31	16/8/4	10	40-15000
S-77U	500 CT./125	32/16/8/ 4/2	30	40-15000

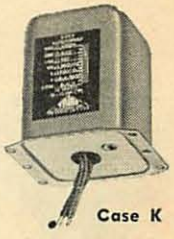
Case A

VIBRATOR POWER
VIBRATOR POWER SUPPLY TRANSFORMERS
Automobile Radio REPLACEMENT Transformers
K Cases have 7 Holes for Mtg. Purposes

Type No.	Primary Volts	DC Volts Filter Input	Secondary AC Volts CT.	Rec. Buffer	Max. DC Ma.
V-21	6-8	140 or 170	365/430	.005	62
V-21B	6-8	140 or 170	365/430	.005	62
V-21K	6-8	140 or 170	365/430	.005	62
V-21Z	6-8	140 or 170	365/430	.005	62
V-23	6-8	215 or 250	530/605	.003	79
V-23B	6-8	215 or 250	530/605	.003	79
V-23K	6-8	215 or 250	530/605	.003	79
V-23Z	6-8	215 or 250	530/605	.003	79
V-31	12-16	240	575	.003	79
V-31K	12-16	240	575	.003	79



Case K



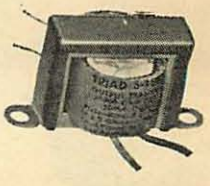
Case K

Combined PLATE and FILAMENT Transformers
New "100" Series
Primary 115 volts 60 cycles

Triad power components are liberally designed to best meet average design specifications and to ensure maximum utility for each design. All units are beautifully finished in baked grey enamel and have all connection data permanently marked on the case.

All types are "Climatite" treated, both coil and core, for protection against moisture and for elimination of lamination chatter. Although they are small in size, the high quality materials used keep losses to a minimum. The temperature rise design is 55°C. Only copper foil static shields, grounded to the case and core, are used. Leads are of a type approved by UL for high temperature operation.

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Rect. Fil. Volts	Rect. Fil. Amp.	Other Fil. Volts	Other Fil. Amp.	Case Dim.-Inches H	Case Dim.-Inches W	Case Dim.-Inches D	Mtg. Dim.-Inches MW	Mtg. Dim.-Inches MD	Wt. Lbs.
R-104A	500 CT.	40			6.3 CT.	2	2¾	2⅜	2¼	1 13/16	1½	1.55
R-105A	600 CT.	65			6.3 CT.	2.7	3⅛	2⅝	2⅜	2	1⅝	2.
R-106A	480 CT.	50	5	2	6.3 CT.	2	3⅛	2⅝	2⅜	2	1⅝	2.05
R-107A	600 CT.	50	5	2	6.3 CT.	2	3⅛	2⅝	2⅝	2	1⅞	2.35
R-108A	500 CT.	75	5	2	6.3 CT.	2.5	3⅛	2⅝	2¾	2	2	2.4
R-109A	600 CT.	75	5	2	6.3 CT.	3	3½	3	2⅞	2¼	1¾	2.9
R-110A	525 CT.	90	5	2	6.3 CT.	5	3½	3	3⅛	2¼	2	3.25
R-111A	700 CT.	90	5	3	6.3 CT.	3.5	3½	3	3¼	2¼	2⅛	3.55
R-112A	550 CT.	110	5	2	6.3 CT.	5	3½	3	3⅛	2¼	2¼	3.7
R-114A	700 CT.	125	5	3	6.3 CT.	4.5	3⅞	3¼	3¼	2½	2⅜	4.7
R-116A	700 CT.	160	5	3	6.3 CT.	5	3⅞	3¼	3⅝	2½	2¾	5.65
R-118A	750 CT.	175	5	3	6.3 CT.	8	4¼	3⅝	4	2¾	2⅞	7.45
R-121A	800 CT.	200	5	3	6.3 CT.	6	4¼	3½	4⅜	2¾	3¼	8.25



Case X

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TRIAD TRANSFORMER CORP.

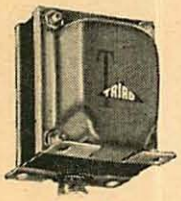
DIVISION OF LITTON INDUSTRIES

POWER

Combined PLATE and FILAMENT Transformers

Primary 115 volts — 60 cycles

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Rect. Fil. Volts	Rect. Fil. Amp.	Other Fil. Volts	Other Fil. Amp.
R-22A	380/320 CT.	70	6.3	.6	6.3 CT.	3
R-22B	380/320 CT.	70	6.3	.6	6.3 CT.	3
R-4A	500 CT.	40			6.3 CT.	2
R-4B	500 CT.	40			6.3 CT.	2
R-5A	600 CT.	65			6.3 CT.	2.7
R-5B	600 CT.	65			6.3 CT.	2.7
R-6A	480 CT.	50	5	2	6.3 CT.	2
R-6B	480 CT.	50	5	2	6.3 CT.	2
R-7A	600 CT.	50	5	2	6.3 CT.	2
R-7B	600 CT.	50	5	2	6.3 CT.	2
R-8A	500 CT.	75	5	2	6.3 CT.	2.5
R-8B	500 CT.	75	5	2	6.3 CT.	2.5
R-9A	600 CT.	75	5	2	6.3 CT.	3
R-9B	600 CT.	75	5	2	6.3 CT.	3
R-10A	525 CT.	90	5	2	6.3 CT.	5
R-10B	525 CT.	90	5	2	6.3 CT.	5
R-11A	700 CT.	90	5	3	6.3 CT.	3.5
R-11B	700 CT.	90	5	3	6.3 CT.	3.5
R-12A	550 CT.	110	5	2	6.3 CT.	5
R-12B	550 CT.	110	5	2	6.3 CT.	5
R-14A	700 CT.	125	5	3	6.3 CT.	4.5
R-14B	700 CT.	125	5	3	6.3 CT.	4.5
R-16A	700 CT.	160	5	3	6.3 CT.	5
R-16B	700 CT.	160	5	3	6.3 CT.	5
R-17A	750 CT. 80 Tap	160	5	3	6.3 CT. 2.5 CT.	5 5
R-18A	750 CT.	175	5	3	6.3 CT.	8
R-18B	750 CT.	175	5	3	6.3 CT.	8
R-19A	750 CT. 80 Tap	200	5	3	6.3 CT. 2.5 CT.	6 10
R-20A	700 CT.	200	5	3	6.3 CT.	8
R-20B	700 CT.	200	5	3	6.3 CT.	8
R-72A	800 CT.	140	5	3	6.3	4
R-21A	800 CT.	200	5	3	6.3 CT.	6
R-21B	800 CT.	200	5	3	6.3 CT.	6
R-24A	800 CT.	300	5	6	6.3 CT.	6
R-24B	800 CT.	300	5	6	6.3 CT.	6
R-25A	800 CT.	500	5	6	6.3 CT. 6.3	3 7
R-58A	875 CT.	185	5	3	6.3 6.3	4 3
R-71A	900 CT.	250	5 CT.	4	6.3 CT. 6.3	2 4
R-93A	150-160-170	500	Silicon Rectifier Voltage doubler		6.3 CT.	6



Case A

Case B

PLATE POWER Transformers

Primary 115 volts — 60 cycles

Type No.	Secondary Volts AC	Secondary Volts DC	Sec. D.C. Ma. CCS	Sec. D.C. Ma. ICAS	Rect. Fil.
P-1A	440/220 CT.	180/90	160	190	5V-3A
P-3A	600/300 CT.	250/125	300	360	5V-4A
P-5A	1100 CT.	400	250	310	5V-4A
P-7A	1235 CT.	500	250	310	5V-4A
P-9A	1235 CT.	500	500	600	5V-6A
P-11A	1455 CT.	600	250	310	
§P-14A	1780 CT.	750/600	250	310	
†P-15AL	2340 CT.	1000	250	310	
†P-16AL	2430 CT.	1000	500	600	
†P-17AL	2880 CT.	1250	250	310	
†P-18AL	2880 CT.	1250	500	600	
†P-20AL	3300 CT.	1500	350	425	

† Plate leads out side of case for 866 rectifiers.

§ Tapped Pri. to produce the lower D.C. voltage.

•New Item

Note: Last letter of Type No. denotes case style.

Case BS

TELEVISION COMPONENTS

Replacement POWER Transformers, Combined Plate and Filament

Electrostatically shielded. Primary 115 volts 60 cycles.

Type No.	Plate Supply AC Volts	Plate Supply DC Ma.	Filaments — Volts and Amperes
R-31A R-31BC	760 V.C.T.	320	5V.—6A. 5V.—2A. 12.6 C.T.—5A.
R-32A	760 V.C.T.	320	5V.—6A. 12.6 V.C.T.—5A 6.3V.—1.2A.
R-33A R-33BC	775 V.C.T.	230	5V.—3A. 6.3V.—9A. 6.3V./5V.—2A.*
R-34A	750 V.C.T.	230	5V.—3A. 6.3V.—8.5A. 6.3V.—1.2A.
R-35A R-35BC	725/340 V.C.T.	250	5V.—3A. 5V.—2A. 6.3V.—8A. 6.3V.—2.5A.
R-36A R-36BC	775 V.C.T.	275	5V.—6A. 6.3V.—8.5A. 6.3V.—1.2A.*
R-37BC	735 V.C.T.	275	5V.—6A. 6.3V.—8.5A. 6.3V./5V.—2A.*
R-38A R-38BC	750 V.C.T.	225	5V.—3A. 6.3V.—10A. 6.3V.—1.2A.* 6.3V.—2.5A.
R-39A R-39BC	640 V.C.T.	225	5V.—3A. 6.3V.—10A. 6.3V.—1.2A.*
R-40A R-40BC	780/440 V.C.T.	300	5V.—3A. 5V.—3A. 5V.—2A. 6.3V.—8.5A. 6.3V.—3.5A.
R-42A R-42BC	675 V.C.T.	185	5V.—3A. 6.3V.—7A. 6.3V.—2A.*
R-44BS	525 V.C.T.	240	5V.—3A. 6.3V.—8A. 6.3V.—1.2A*
R-47BS	725 V.C.T.	225	5V.—3A. 6.3V.—10A. 6.3V.—2.7A.*
R-48BS	750 V.C.T.	180	5V.—3A. 6.3V.—9A. 6.3V.—2.7A.*
R-49BS R-49BC	650 V.C.T.	240	5V.—3A. 6.3V.—9A. 6.3V.—9A. 6.3V.—1.2A.*
R-50A R-50BC	790/650 V.C.T.	310	5V.—3A. 5V.—3A. 5V.—2A. 6.3V.—5A. 6.3V.—5A. 6.3V.—2.6A.
R-51BC	505 V.C.T.	320	5V.—6A. 6.3V.—5A. 6.3V.—5A. 6.3V.—1.2A.*
R-52BC	600 V.C.T.	270	5V.—3A. 6.3V.—5A. 6.3V.—5A. 6.3V.—1.2A.*
R-60BC	460 V.C.T.	300	5V.—6A. 6.3V.—10A. 6.3V.—1.2A.* 6.3V.—2.5A.
R-61BC	560 V.C.T.	275	5V.—6A. 6.3V.—6A. 6.3V.—6A. 6.3V.—1.2A.*
R-62BC	680 V.C.T.	290	5V.—6A. 6.3V.—10A. 6.3V.—1.5A. 6.3V.—1.2A.*
R-63BC	131 V.	980	6.3V.—9A. 6.3V.—6A. 6.3V.—1.2A.*
R-64BC	520 V.C.T.	270	5V.—3A. 6.3V.—10A.
R-65BC	550 V.C.T.	270	5V. —3A. 6.3V. —10A.
R-66BC	580 V.C.T.	270	5V. —3A. 6.3V. —10A.
R-67BC	600 V.C.T.	250	5V. —3A. 6.3V. —9A.
R-69BC	550 V.C.T.	270	5V. —3A. 6.3V. —10A.
•R-74BC	655 V.C.T.	190	6.3V.—7.8A. 6.3V.—1.2A. (damper wdg) 5V.—3A.
•R-75BA	560 V.C.T.	250	5V.—3A. 6.3V.--9.5A.

* Less than 100 m.m.f.d. capacity to ground and insulated for high voltage damper tube.
Height of transformers in BC cases is measured from chassis line to top of case. Copper shading ring on all BC cases to reduce external magnetic field.

•New item.

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SEE TRIAD PRICE LIST ON PAGES 1397, 1398

TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

TELEVISION COMPONENTS

VERTICAL OUTPUT Transformers

Type No.	Application	Turns Ratio
A-99X	Transformer type, 4 leads.	10:1
A-101U	Same as above, except upright universal mtg.	10:1
A-102X	Autoformer type, 3 leads.	11.4:1
A-103X	Transformer type, 4 leads. For low inductance yokes.	49:1
A-104X	Autoformer type, 3 leads.	18:1
A-105X	Transformer type, 4 leads.	25:1
A-107X	Transformer type, 4 leads. Heavy duty.	10:1
A-108X	Transformer type, 4 leads.	8:1
A-109X	Transformer type, 4 leads.	15:1
A-110X	Autoformer type, 3 leads.	44:1
A-111X	Transformer type, 4 leads. Small size.	10:1
†A-112X	Autoformer and Blank Winding	15:1
A-113X	Transformer type, 4 leads.	12:1
A-113Z	Transformer type, 4 leads.	12:1
A-114X	Transformer type, 4 leads.	25:1
A-115X	Autoformer type, 3 leads.	15:1
A-115Z	Autoformer type, 3 leads.	15:1
A-116X	Autoformer type, 3 leads	6:1
A-117X	Transformer type, 7 leads (Muntz replacement)	25:1 and 2.5:1
A-118X	Autoformer type, 4 leads.	8:1/5.5:1
A-119X	Autoformer type, 3 leads.	15:1

†Crosley 728256-2 and others.

HORIZONTAL BLOCKING OSCILLATOR

Type No.	Application
A-98X	Generates 15750 pulse.
A-98K	Generates 15750 pulse.

VERTICAL BLOCKING OSCILLATOR

Type No.	Application	Ratio
A-96X	Dumont type. 3 windings.	1:0.5 1:1
A-97X	Std. Mtg.	1:4.14
A-97Z	Same—Small Mtg. Dim.	1:4.14
A-122X	Std. Mtg.	1:3.5
A-122Z	Same—Small Mtg. Dim.	1:3.5
A-97K	Same—Case K.	1:4.14
A-97Y	Same—Case Y.	1:4.14
A-95X	Blocking oscillator transformer for vertical sweep.	1:4.14
A-120Z	Philco replacement	1:1.5

Width and Linearity COILS

All WLC units feature dual mounting, for 5/16" and 7/16" mounting holes. Units are assembled with the 5/16" mounting clip in place. To use the 7/16" mounting remove the 5/16" clip, cut off the tubing, thread the 7/16" clip to the core and install.

Type No.	Inductance MH Min.	Max.	Resist.	Application
WLC-3	4.00	28.00	17.	wid or lin
WLC-4	.05	.5	.5	width D11 211T3 Color conv cont
WLC-5	1.00	8.00	8.00	wid or lin
WLC-6	2.00	18.00	14.00	wid or lin
WLC-7	40% Tap .60	4.30	3.90	Tapped wid or lin
WLC-8	.30 4.00	2.80 28.00	5.00 26.00	Series Coil Par. Coil
WLC-8A	.20 4.00	1.90 26.00	4.00 23.00	Series Coil Par. Coil
WLC-9	.10 4.00	.90 16.00	.90 25.00	pri width Sec AFC AGC
WLC-11	4.00 .60	28.00 8.30	27.00 24.00	pri or sec Tapped pri or sec
WLC-12	.9	16.00	9.00	wid or lin tapped
WLC-21	.10	1.00	1.00	wid or lin
WLC-23	.40	3.00	3.00	wid or lin

OUTPUT Transformers
Tube to Voice Coil and Line

Type No.	Tubes	Pri. Imped.	Sec. Imped.	DC Pri.	Audio Watts
S-27A	2A3, 6A3, 6B4, 6L6, 6U6, 6Y6, 12A5, 25B6, 35B5, 50A5.	2500	500/16/8/4	80	8
S-28X	2A5, 6AC5, 6B5, 6F6, 6K6, 7B5, 14A5, 25AC5.	7500	500/16/8/4	40	5
S-29X	6AQ5, 6AS5, 6V6, 7C5, 25A6, 25B5, 25L6, 25N6, 35A5, 35L6.	5000	500/16/8/4	45	5
S-22A	P.p. 2A3, 6B4, 6A5, 6L6, etc.	5000 CT.	500/16/8/4	100 (bal.)	15
S-24A	P.p. 6V6, 7C5, 6K6, 6F6, etc.	8000 CT.	500/16/8/4	80 (bal.)	15
S-60A	P.p. 6L6, 5881, 807, etc.	6600 CT.	500/250/16/8/4	120 (bal.)	30

OUTPUT Transformers
70.7 volt Line to Voice Coil

Type No.	Primary Impedance	Sec. Imped.	Output Watts	Freq. Resp.
S-70Z	Autoformer 16000/8000/4000/2000/1000.	8/4	5	100-5000
S-71Z	Autoformer 4000/2000/1000/500.	16/8/4	10	100-5000
S-25Z	Autoformer 4000/2000/1000/500.	8/4	10	70-7000
*SR-45Z	Autoformer 4000/2000/1000/500.	16/8/4	10	20-20000
*SR-74K	Weatherproof autoformer 4000/2000/1000/500.	16/8/4	10	20-20000
S-72Z	Autoformer 2000/1000/500/250.	16/8/4	20	100-5000
S-46A	Autoformer 2000/1000/500/250.	16/8/4	20	20-20000
S-75K	Weatherproof autoformer 2000/1000/500/250.	16/8/4	20	20-20000
S-78Z	Isolation 4000/2000/1000/500.	16/8/4	10	100-5000
S-79Z	Isolation 2000/1000/500/250.	16/8/4	20	100-5000
•S-47Z	10K/5K/2.5K/1250/625	16/8/4	8	20-20000

*Replaces S-45Z and S-74K

25 VOLT LINE TRANSFORMERS

Type No.	Primary Impedance	Sec. Imped.	Output Watts	Freq. Resp.
•S-125X	325CT	16/8/4	2	70-7000
•S-126X	78CT	16/8/4	8	70-7000
•S-127X	35CT	16/8/4	18	70-15000

MATCHING TRANSFORMERS FOR 25 OR 70.7 VOLT LINE

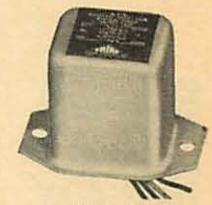
•S-128Z	70.7V line to 25V lien or, 25V line to 70.7V line	40	20-15000
•S-129Z	70.7V line to 25V line or, 25V line to 70.7V line	30	20-15000
•S-130Z	70.7V line to 25V line or, 25V line to 70.7V line	10	20-15000

Ask for the Triad publication "Sound distribution using the 70 volt line." Free from your distributor.

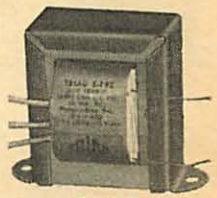
Special TRANSCEIVER Transformers
(Voice Frequencies)

Type No.	Application	Primary Impedance	Secondary Impedance
A-21X	S.B. mike or plate to grid (2 primaries)	100 10000	100000
A-23X	Tube to line and hi-impedance phones.	10000	50 and 2000

•New Item

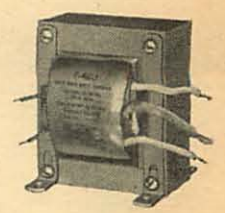


Case K



Case Z

WC



Case U

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Use Index (pg. 2) for Quick, Easy Location of ALL Products

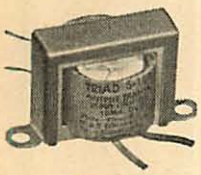
TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

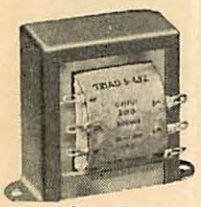
AUDIO

STANDARD OUTPUT Transformers
Tube to Standard Voice Coil (3-4 ohms)

Type No.	Primary Tubes Used	Primary Impedance	DC-Ma.	Audio Watts
S-12X	25L6, 50L6, 35A5, 50B5, etc.	2500	50	2
S-1X	25L6, 50L6, 35A5, 50B5, 2A3, 6B4, etc.	2500	60	3
S-2X	2A3, 6A3, 6B4, 6Y6, 7A5, 25B6, 50L6.	2000	55	4
S-3X	6V6, 7C5, 6AQ5, 25A6, 71, etc.	5000	40	3
S-16X	25L6, 50L6, 35A5, 50B5, etc.	3000 (5% tap)	60	3
S-4X	2A3, 6B4, 6L6, 6U6, 12A5, 25L6, 50A5, 117N7.	3000	70	5
S-5Z	6V6, 7C5, 6AQ5, 25A6, 71, etc.	5000	50	5
S-5X	6V6, 7C5, 6AQ5, 25A6, 71, etc.	5000	50	5
S-6X	3B5, 6AQ5, 6AS5, 25A6, 25A7, 35L6, 43, 117L7.	5000	35	2
S-7X	6K6, 7B5, 6F6, 1Q5, 31, 33, 41, 42, etc.	7500	40	3
S-8X	1C5, 1H4, 1Q5, 1S4, 3Q5, 3S4, 14A5, 25AC5.	8000	30	2
S-9Z	6K6, 7B5, 6F6, 1Q5, 31, 33, 41, 42, etc.	7500	50	5
S-9X	6K6, 7B5, 6F6, 1Q5, 31, 33, 41, 42, etc.	7500	50	5
S-11X	1J6, 3Q4, 3V4, 6AK6, 6AG7, etc.	10000	30	2
S-11Z	1J6, 3Q4, 3V4, 6AK6, 6AG7, etc.	10000	30	2
S-17X	1J6, 3Q4, 3V4, 6AK6, 6AG7, etc.	10000	30	3
S-13X	1A5, 1N6, 1LA4.	25000	10	2
S-15X	P.p.—6V6, 7C5, 6K6, 6F6, etc.	10000 CT.	40	7
S-19Z	P.p.—6V6, 7C5, 6K6, 6F6, etc.	10000 CT.	50	10
S-21A	P.p.—6V6, 7C5, 45, 6L6, etc.	8000 CT.	50	15



Case X



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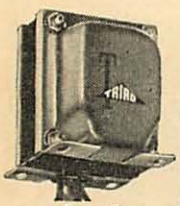


Case A

LOW LEVEL OUTPUT Transformers

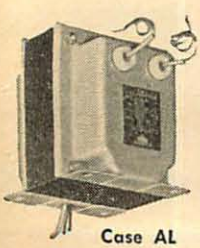
Type No.	Application	Freq. Resp.	Pri. Imped.	Second. Imped.
A-51X	Tube to line.	300-3000	7000	50
A-53X	Single or p.p. tubes to line.	70-7000	18000 CT.	600/250/50
A-54X	P.P. Tubes to V.C.	300-15000	7700 CT.	8/4
A-55J	Parallel-fed 6J5 or 6SN7 to line. 45 db. shielding	30-15000	15000	600/250/50
A-65J	Parallel-fed 6J5 or 6SN7 to line. 45 db. shielding.	30-15000	15000	600/150 Split winding
S-58X	Line to line.	300-3000	600/150	600/150 —Split windings—
A-57J	Line to line. 45 db. shielding.	30-15000	600/250/50	600/250/50
A-67J	Line to line. 45 db. shielding.	30-15000	600/150	600/150 —Split windings—

Case J

Case P

"SPLATTER" Chokes

Type No.	Inductance Henries	Current Ma.	Res. Ohms	Wt. Lbs.
C-26X	Tapped .2 to 1.5	100	95	1¼
C-43X	Tapped .05 to 1	300	40	2



Case AL

UNIVERSAL OUTPUT Transformers
Any Tube to Any Voice Coil

Type No.	Application	Pri. DC Ma.	Audio Watts
S-51X	Single or p.p. plates (4,000 to 14,000 ohms) to V.C.	35	5
S-53X	Single or p.p. plates (4,000 to 14,000 ohms) to V.C.	40	8
S-55Z	Push-pull plates (4,000 to 14,000 ohms) to V.C.	40 ea. side	10
S-55X	Push-pull plates (4,000 to 14,000 ohms) to V.C.	40 ea. side	10
S-57Z	Push-pull plates (4,000 to 14,000 ohms) to V.C.	50 ea. side	15

PLUG-IN INPUT Transformers

Type No.	Application	Pri. Imped.	Second Imped.	Freq. Resp.	Shld'g
A-200P	Line or mike to grid.	200/50 CT.	36,000	30-20000	70 db.
A-202P	Same as above.	200/50 CT.	36,000	20-20000	90 db.
HS-273P	Same as above.	200/50 CT.	80,000	30-30000	70 db.
•A-210P	Stereo Isolation	1:1 ratio	ODBM	20-20000	45 db.

INTERSTAGE Transformers
Plate to Grid

Type No.	Application	Freq. Resp.	Pri. Imped.	Second Imped.	Ratio
A-31X	Plate to single or p.p. grids	300-3000	10000	90000CT	1 : 3
A-33X	Plate to single or p.p. grids	70-7000	10000	90000CT	1 : 3
A-42Z	Multi-ratio single or p.p. plates to single or p.p. grids.	70-7000	15000 CT.	135000C.T. or 33750	1 : 1.5 1 : 3 1 : 6
A-35A	Plate to single or p.p. grids	50-10000	10000	90000CT	1 : 3
A-39A	P.p. plates to p.p. grids	50-10000	20000 CT.	45000CT	1 : 1.5
A-40J	Parallel-fed 6J5 or 6SN7. Plate to p.p. grid 45 db. shielding.	30-15000	15000	86000CT	1 : 2.76

MODULATION Transformers — Tube to RF Load

Type No.	Primary	Freq. Resp.	Secondary Impedance	Secondary Ma.	Aud. Wtts.
TY-65Z	32 CT. (575 Ma.) (Transistor use)	70-15000	3000-4000-6000	100	10
M-4Z	5000 (Auto-former).	300-3000	6750 4	100 (total)	10
M-5Z	5000 (Auto-former).	300-3000	6750 4	165 (total)	20
M-1X	10000 CT. for 19, 1J6, 6N7, 6A6, etc.	300-3000	5000-8000-10000	50	5
M-3X	10000 CT. for 6N7, 6A6, 6F6's, etc.	300-3000	3000-5000-8000	100	20
TY-66A	6 CT. (5A) (Transistor use)	300-3000	3000-4000-6000	200	40
†M-7AL	4250 CT. for 807's	300-3000	3000-5000-8000	200	60
M-15A	Multi-match	300-3000	4000 to 20000	150	30
M-16AL	Multi-match	300-3000	4000 to 20000	180	60
†M-8AL	Multi-match	300-3000	4000 to 20000	200	80
†M-12AL	Multi-match	300-3000	4000 to 20000	300	125

DRIVER Transformers

Type	Driver Tubes	Output Tubes	Frequency Response	Ratio Primary ½ Sec.	Primary D.C. Ma.
A-81X	30, 1H4, etc.	19, 30's, 1J6, etc.	300-3000	2.66:1	15
A-83X	6F6, 42, 45, etc.	6L6, 6F6, 6V6, 807, etc.	70-7000	1.33:1	40
A-85X	6F6, 42, 45, etc.	6L6, 6F6, 6V6, 807, etc.	50-10000	2.66:1	40
A-89A	P.p. plates to class B or AB grids—Universal 15 watt.	Any class B or AB tubes. 100-500 watts output	50-10000	3.1 or 1.8:1	100 per side
A-91A	P.p. plates to Class B or AB grids—Universal 30 watt.	Any class B or AB tubes. 400-1500 watts output	50-10000	3.1 or 1.88:1	160 per side
TY-61X	Transistor use		70-10000	1:0.5	100

•New Item †Plate leads out side

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SEE TRIAD PRICE LIST ON PAGES 1397, 1398

TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

PRICE LIST BY TYPE NUMBER

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

RIQAP (REDUCED INSPECTION QUALITY ASSURANCE PLAN)

All TRIAD transformers are manufactured under a Signal Corps approved plan intended to assure quality in the product. The system includes approved procedures for incoming inspection of material, process controls in the plant, and final inspection. Transformers passed are approved for shipment for military use.

RIQAP applies to all Triad transformers, military or otherwise. Why not take advantage of the exhaustive quality control at Triad and eliminate or reduce the costs of your incoming inspection.

All of the transformers listed on the preceeding pages are currently available from stock at the four plants of Triad and from better distributors in all the purchasing centers of the United States.

Triad transformers are continually being revised and improved to use the best available materials. For this reason, the Triad Transformer Corporation reserves the right to modify existing mechanical construction or electrical characteristics of any catalog item without notice.

TRIAD transformer numbers are so arranged as to indicate the type of transformer and type of mounting. The prefix letter indicates the type of transformer as follows: **A**—Audio **C**— Choke **D**—High voltage horizontal output transformer **E**—High "Q" Toroidal coils **F**—Filament **G**—Geoformer **M**—Modulation **N**—Isolation or Stepdown autoformer **NW**—Yoke Networks **P**—Plate power transformer **PL**—Pulse transformer **R**—Power transformer, combined plate and filament **S**—Speaker coupling or output transformer **T, TZ**—Miniatures **TY**—Transistor transformer **V**—Vibrator power **WC, WLC**—Width and Linearity coils **Y**—Yokes. Hermetically sealed units bear the prefix **HS** and **HSM**; hermetically sealed "Trijets" **JZ, JO** and **AF**. Type of mounting is indicated by the suffix letter which refers to the illustrations in the catalog.

Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price
A-1X	3.30	A-105X	6.55	C-22A	34.00	For Molded Cup		EK-060	11.42	EM-300	8.62	F-8X	6.70		
A-3X	3.60	A-107X	7.90	C-23X	4.45	add	3.20	EK-080	11.65	EM-400	8.77	F-9U	11.95		
A-4X	3.80	A-108X	6.10	C-24X	3.55	(EA-001A etc.)		EK-100	11.80	EM-500	9.04	F-9A	13.45		
A-5X	4.95	A-109X	6.65	C-25A	10.00	For Hermetic		EK-120	11.80	EM-700	9.59	F-10U	15.00		
A-6X	3.70	A-110X	6.10	C-26X	6.95	Sealing add	5.55	EK-150	11.80	EM-1000	10.70	F-11U	15.00		
A-7J	8.80	A-111X	5.25	C-27X	3.40	(EA-001HS etc.)		EK-200	11.89	For Molded Cup		F-13X	3.50		
A-9J	16.20	A-112X	6.40	C-28X	4.55	EC-007	7.37	EK-250	12.05	add	3.05	F-14X	3.70		
A-10J	16.40	A-113X	6.15	C-29X	5.00	EC-002	7.37	EK-300	12.20	(EM-001A etc.)		F-16X	5.55		
A-11J	19.20	A-113Z	6.15	C-30X	3.35	EC-003	7.37	EK-400	12.50	For Hermetic		F-18A	10.00		
A-12J	19.40	A-114X	6.25	C-31A	11.20	EC-004	7.37	EK-500	12.79	Sealing add	5.45	F-18X	7.80		
A-13J	19.20	A-115X	6.15	C-32AL	20.50	EC-005	7.37	EK-700	13.05	(EM-001HS etc.)		F-21A	11.60		
A-21X	3.85	A-115Z	6.15	C-33A	17.25	EC-007	7.52	EK-1000	13.32	ET-001	7.38	F-22A	17.00		
A-23X	4.35	A-116X	6.65	C-35A	21.40	EC-010	7.65	EK-2000	13.75	ET-002	7.38	F-23U	11.75		
A-31X	3.75	A-117X	4.90	C-38AL	35.00	EC-015	7.65	EK-3000	14.15	ET-003	7.38	F-25X	5.95		
A-33X	5.10	A-118X	6.25	C-39A	34.50	EC-020	7.78	EK-4000	14.55	ET-004	7.38	F-26X	6.95		
A-35A	9.50	A-119X	6.15	C-40X	4.20	EC-030	7.78	EK-5000	14.70	ET-005	7.50	F-27U	15.55		
A-39A	9.90	A-120X	4.00	C-42AL	20.40	EC-040	7.92	EK-7000	15.40	ET-007	7.65	F-30A	13.60		
A-40J	16.40	A-120Z	4.00	C-43X	10.00	EC-050	7.92	EK-10000	16.10	ET-010	7.65	F-32A	10.75		
A-41J	16.40	A-122X	3.60	C-45AL	35.00	EC-070	8.07	EK-20000	16.65	ET-015	7.65	F-34A	14.45		
A-42Z	5.75	A-122Z	3.60	C-47U	13.55	EC-100	8.07	EK-30000	17.90	ET-020	7.78	F-36A	17.25		
A-51X	3.20	A-200P	24.40	C-48U	15.80	EC-200	8.20	EK-40000	18.85	ET-025	7.78	F-38A	18.00		
A-53X	4.60	A-202P	33.80	C-49U	18.55	EC-250	8.20	For Molded Cup		ET-030	7.92	F-40X	5.65		
A-54X	4.15	A-210P	16.50	C-80U	65.00	EC-300	8.30	add	3.47	ET-040	7.92	F-41X	8.40		
A-55J	16.10	C-1X	2.50	EA-001	6.82	EC-400	8.34	(EK-010A etc.)		ET-050	7.92	F-42A	12.50		
A-57J	16.35	C-2X	2.40	EA-002	6.82	EC-500	8.49	For Hermit		ET-060	8.07	F-44X	5.90		
A-65J	16.80	C-3X	3.35	EA-003	6.82	EC-600	8.49	Sealing add	5.85	ET-070	8.07	F-45X	5.65		
A-66J	16.25	C-4X	2.90	EA-004	6.67	EC-700	8.62	(EK-010HS etc.)		ET-100	8.07	F-47U	10.25		
A-67J	17.20	C-5X	3.75	EA-005	6.67	EC-1000	8.77	EM-001	7.23	ET-150	8.20	F-48U	15.15		
A-68J	16.50	C-6X	3.30	EA-007	6.67	EC-1500	9.04	EM-002	7.23	ET-200	8.20	F-49U	23.30		
A-75J	17.20	C-7X	4.30	EA-010	6.67	EC-2000	9.17	EM-003	7.23	ET-250	8.35	F-50X	5.25		
A-77J	15.00	C-8X	3.90	EA-015	6.82	EC-3000	9.30	EM-004	7.23	ET-300	8.35	F-51X	5.70		
A-78J	16.10	C-9X	3.90	EA-020	6.82	EC-4000	9.45	EM-005	7.23	ET-400	8.35	F-52X	5.00		
A-79J	16.25	C-10X	5.10	EA-025	6.82	EC-5000	9.74	EM-007	7.37	ET-500	8.49	F-53X	7.00		
A-81X	3.55	C-11X	5.10	EA-030	6.95	EC-7000	10.70	EM-010	7.50	ET-700	8.62	F-60U	11.65		
A-83X	4.30	C-12A	7.65	EA-040	6.95	EC-10000	11.90	EM-015	7.70	ET-1000	8.77	F-61U	16.90		
A-85X	5.00	C-12X	5.65	EA-050	6.95	For Molded Cup		EM-020	7.78	For Molded Cup		F-62U	32.00		
A-89A	11.35	C-13X	5.40	EA-070	7.08	add	3.33	EM-025	7.78	add	3.33	F-63U	10.00		
A-91A	15.50	C-14A	8.65	EA-100	7.08	(EC-005A etc.		EM-030	7.85	(ET-001A etc.)		F-64U	12.00		
A-95X	3.80	C-14X	6.25	EA-150	7.08	For Hermetic		EM-040	7.92	For Hermetic		F-65U	18.65		
A-96X	5.00	C-15A	8.65	EA-200	7.28	Sealing add	5.55	EM-050	7.92	Sealing add	5.55	F-66U	45.00		
A-97K	5.15	C-15X	6.25	EA-250	7.37	(EC-005HS etc.)		EM-060	8.07	(ET-001HS etc.)		F-67U	25.50		
A-97X	3.60	C-16A	11.10	EA-300	7.37	EK-010	10.82	EM-070	8.07	F-1X	3.90	F-68U	16.50		
A-97Y	5.30	C-17X	5.15	EA-400	7.52	EK-020	11.00	EM-100	8.20	F-3X	6.40	F-71U	10.40		
A-97Z	3.60	C-18A	15.40	EA-500	7.92	EK-030	11.10	EM-150	8.20	F-5U	9.40	F-72Z	6.75		
A-98K	5.55	C-19A	17.35	EA-600	8.07	EK-040	11.10	EM-200	8.34	F-6X	5.30	F-79U	37.50		
A-98X	3.60	C-20A	20.10	EA-700	8.34	EK-050	11.32	EM-250	8.34	F-7X	5.80	F-80U	74.50		
A-99X	5.75	C-17X	5.15	EA-400	7.52	EK-010	10.82	EM-070	8.07	F-1X	3.90	F-83A	18.60		
A-101U	8.60	C-18A	15.40	EA-500	7.92	EK-020	11.00	EM-100	8.20	F-3X	6.40	F-84AC	31.50		
A-102X	5.15	C-19A	17.35	EA-600	8.07	EK-030	11.10	EM-150	8.20	F-5U	9.40				
A-103X	5.75	C-20A	20.10	EA-700	8.34	EK-040	11.10	EM-200	8.34	F-6X	5.30				
A-104X	6.35	C-21X	4.45	EA-1000	8.62	EK-050	11.32	EM-250	8.34	F-7X	5.80				

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TRIAD TRANSFORMER CORP.

DIVISION OF LITTON INDUSTRIES

PRICE LIST BY TYPE NUMBER

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price
F-90X	6.25	G-475	33.82	HSM-307	28.35	N-11M	86.50	R-30X	7.25	S-11Z	2.75	TY-48X	6.60
F-91X	8.10	G-493	29.40	HSM-309	26.60	N-34X	9.70	R-31A	34.70	S-12X	2.65	TY-49X	4.65
F-92A	12.70	HS-1	47.60	HSM-315	30.60	N-35M	22.00	R-31BC	36.10	S-13X	2.90	TY-50X	7.60
G-2	40.85	HS-3	51.80	HSM-319	42.75	N-50M	37.50	R-32A	32.80	S-15X	4.30	TY-51X	6.60
G-4	40.85	HS-4	47.30	HS-331	15.90	N-51X	7.65	R-33A	29.80	S-16X	3.05	TY-52X	7.15
G-5	35.30	HS-5	45.90	HS-333	16.75	N-52M	50.00	R-33BC	31.00	S-17X	3.20	TY-53X	5.55
G-7	35.30	HS-8	47.60	HS-335	21.15	N-53M	16.40	R-34A	28.60	S-19Z	5.80	TY-54X	6.80
G-8	46.75	HS-11	36.10	HS-339	21.00	N-54M	19.45	R-35A	28.00	S-21A	8.80	TY-55X	6.95
G-9	35.30	HS-14	37.50	HS-341	22.00	N-55M	31.90	R-35BC	30.55	S-22A	11.35	TY-56X	6.95
G-10	46.75	HS-15	44.40	HS-401	27.15	N-56M	38.90	R-36A	29.80	S-23X	3.20	TY-57X	5.85
G-12	33.30	HS-23	36.20	HS-402	25.55	N-57M	58.50	R-36BC	31.40	S-24A	11.35	TY-58X	5.85
G-14	32.65	HS-25	36-20	HS-405	34.20	N-59M	86.50	R-37BC	30.55	S-25Z	6.65	TY-59X	7.65
G-15	53.55	HS-27	32.80	HS-407	40.45	N-60SC	185.00	R-38A	28.00	S-26X	3.35	TY-60X	7.20
G-16	34.45	HS-29	45.80	HS-409	36.00	N-62SC	86.00	R-38BC	30.40	S-27A	10.00	TY-61X	4.85
G-17	36.25	HSM-3	35.10	HS-413	50.00	N-64SC	48.40	R-39A	28.90	S-28X	5.90	TY-62X	5.80
G-18	33.30	HS-32	45.80	HS-415	52.80	N-66A	28.35	R-39BC	30.40	S-29X	5.60	TY-63X	6.65
G-19	33.30	HS-35	32.50	HS-417	59.70	N-67A	19.15	R-40A	33.70	S-31A	14.30	TY-64X	6.10
G-20	48.15	HS-50	38.70	HS-425	20.00	N-68X	9.30	R-40BC	36.65	S-32A	15.00	TY-65Z	6.10
G-21	39.40	HS-52	40.00	HS-427	26.10	N-69A	12.50	R-41C	27.70	S-33A	14.30	TY-66A	15.15
G-22	52.00	HS-54	47.60	HS-433	28.90	N-70A	16.65	R-42A	25.40	S-34X	8.25	TY-67A	15.55
G-23	39.40	HS-56	43.00	HS-435	31.30	N-71A	23.45	R-42BC	27.10	S-35A	15.50	TY-68S	10.30
G-24	63.00	HS-58	50.50	HS-436	16.65	P-1A	13.60	R-43C	16.45	S-36A	16.10	TY-69S	13.35
G-25	39.40	HS-60	32.50	HS-438	26.40	P-3A	16.50	R-44BC	26.40	S-38A	20.00	TY-70S	13.45
G-30	29.95	HS-61	34.40	HS-441	45.15	P-5A	22.20	R-45C	22.20	S-39A	20.80	TY-71S	15.30
G-31	32.65	HS-66	38.60	HS-442	31.80	P-7A	23.00	R-46A	44.50	S-40A	20.00	TY-74S	16.65
G-32	40.85	HS-71	24.00	HS-443	21.90	P-9A	40.20	R-47BS	32.00	S-42A	27.00	TY-75A	19.40
G-33	35.30	HS-73	25.70	HS-470	25.00	P-11A	25.60	R-48BS	29.40	S-45Z	8.90	TY-76A	12.75
G-34	46.75	HS-75	30.30	HS-472	31.00	P-14A	32.50	R-49BC	30.50	S-46A	15.25	TY-78	17.35
G-36	28.00	HS-77	35.30	HS-474	38.10	P-15AL	37.50	R-49BS	32.20	S-47Z	6.25	TY-79	18.50
G-40	35.30	HSM-79	32.50	JAF-1	22.00	P-16AL	74.50	R-50A	34.50	S-51X	4.25	TY-80	19.35
G-48	27.30	HSM-80	35.50	JAF-2	22.90	P-17AL	46.70	R-50BC	36.00	S-53X	4.85	TY-81	20.85
G-51	32.65	HSM-81	39.30	JAF-3	22.90	P-18AL	85.00	R-51BC	28.60	S-55X	6.10	TY-82	21.50
G-51A	32.65	HSM-82	39.30	JAF-5	22.90	P-20AL	82.80	R-52BC	27.85	S-55Z	6.10	TY-84	25.00
G-52	34.65	HSM-84	39.30	JAF-11	21.40	PL-4	17.20	R-54X	5.95	S-57Z	7.35	TY-88	17.35
G-53	34.65	HSM-85	39.30	JAF-12	22.00	PL-5	20.80	R-56A	10.65	S-58X	4.75	TY-89	18.00
G-53A	34.65	HSM-91	65.50	JAF-13	22.90	PL-6	20.80	R-58A	25.00	S-60A	14.15	TY-90	19.40
G-54	34.65	HSM-94	72.70	JAF-14	22.90	PL-10	1.95	R-60BC	29.70	S-65X	3.95	TY-91	20.85
G-57	28.00	HSM-95	72.70	JAF-15	22.90	R-2C	6.65	R-61BC	32.50	S-66X	3.40	TY-92	21.85
G-58	43.05	HS-97	137.00	JAF-21	22.00	R-3A	9.30	R-62BC	34.60	S-70Z	5.15	TY-94	25.50
G-64	27.30	HSM-181	39.30	JAF-22	22.00	R-4A	9.05	R-63BC	27.50	S-71Z	5.55	TY-99	18.50
G-65	27.30	HSM-182	39.30	JAF-23	22.90	R-5A	10.00	R-64BC	22.50	S-72Z	7.00	TY-100	19.35
G-72	35.30	HSM-186	50.00	JAF-31	23.60	R-5B	10.00	R-65BC	24.00	S-74K	15.55	TY-101	20.85
G-80	40.95	HSM-187	50.00	JAF-33	23.60	R-6A	10.25	R-66BC	25.00	S-75K	22.00	TY-468	14.50
G-84	35.30	HSM-189	50.00	JAF-101	21.00	R-6B	10.25	R-67BC	22.80	S-76Z	8.40	TZ-1	6.15
G-85	35.30	HSM-190	50.00	JO-1	21.90	R-7A	10.80	R-68A	14.70	S-77U	14.70	TZ-5	6.15
G-92	36.75	HSM-192	75.00	JO-2	23.20	R-7B	10.80	R-69BC	23.30	S-78Z	6.10	TZ-7	5.45
G-101	32.65	HSM-193	75.00	JO-3	23.20	R-8A	11.45	R-70A	18.90	S-79Z	6.90	TZ-13	6.40
G-135	32.65	HSM-201	36.10	JO-5	23.20	R-8B	11.45	R-71A	27.90	S-125X	4.95	TZ-15	6.40
G-150	32.65	HSM-203	35.70	JO-11	22.20	R-9A	12.50	R-72A	19.05	S-126X	5.75	TZ-25	5.20
G-155	32.65	HSM-205	40.25	JO-12	22.90	R-9B	12.50	R-73B	12.90	S-127X	7.75	TZ-26	5.20
G-183	41.50	HSM-207	44.00	JO-13	22.90	R-10A	13.75	R-74BC	35.00	S-128Z	9.50	TZ-28	5.20
G-201	32.65	HSM-212	54.00	JO-21	22.90	R-10B	13.75	R-75BA	20.50	S-129Z	8.80	V-1K	10.95
G-202	33.30	HSM-216	63.25	JO-22	22.90	R-11A	14.15	R-93A	23.50	S-142A	21.40	V-3K	11.50
G-235	32.65	HSM-218	87.25	JO-23	23.20	R-11B	14.15	R-104A	8.00	S-146A	30.60	V-5A	11.50
G-250	32.65	HSM-219	83.25	JO-31	22.90	R-12A	14.55	R-105A	9.15	S-148A	30.60	V-7A	13.95
G-255	32.65	HSM-223	18.75	JO-101	21.00	R-12B	14.55	R-106A	9.15	S-152A	44.60	V-21	7.00
G-266	34.15	HSM-225	23.80	JZ-1	19.65	R-14A	16.35	R-107A	10.00	T-1X	7.20	V-21B	8.00
G-274	34.00	HSM-226	25.85	JZ-5	20.20	R-14B	16.35	R-108A	10.55	T-2X	7.20	V-21K	10.55
G-275	34.15	HSM-227	31.70	JZ-7	19.65	R-16A	18.60	R-109A	11.50	T-3X	7.20	V-21Z	7.15
G-276	34.15	HSM-228	38.50	JZ-13	19.65	R-16B	18.60	R-110A	11.95	T-5X	7.20	V-23	8.20
G-283	41.50	HSM-229	30.30	JZ-15	19.65	R-17A	20.00	R-111A	12.50	T-11X	6.70	V-23B	10.00
G-284	33.30	HSM-230	26.15	JZ-25	19.10	R-18A	20.50	R-112A	12.90	T-12X	7.20	V-23K	12.10
G-285	33.30	HSM-231	34.10	JZ-26	19.10	R-18B	20.50	R-114A	14.45	T-13X	6.60	V-23Z	8.30
G-301	32.15	HSM-232	39.30	M-1X	4.70	R-19A	24.40	R-116A	14.60	T-20X	6.75	VR-30Z	7.85
G-306	32.15	HSM-234	40.50	M-3X	7.65	R-20A	22.00	R-118A	17.05	T-21X	6.45	V-31	7.45
G-313	32.15	HSM-235	53.75	M-4Z	5.00	R-20B	22.00	R-121A	19.05	T-22X	6.45	V-31K	11.60
G-315	32.15	HSM-236	35.90	M-5Z	6.65	R-21A	22.80	S-1X	2.75	T-23X	6.70		
G-335	31.50	HSM-241	54.50	M-7AL	21.60	R-21B	22.80	S-2X	2.90	T-31X	6.70		
G-336	31.50	HSM-245	62.75	M-8AL	27.00	R-22A	11.85	S-3X	2.90	T-33X	6.70		
G-350	31.50	HS-247	76.40	M-12AL	32.20	R-22B	11.85	S-4X	3.90	T-41X	6.50		
G-388	32.15	HSM-270	29.40	M-15A	18.80	R-23B	10.00	S-5X	3.95	T-42X	6.50		
G-389	32.15	HSM-271	40.00	M-16AL	20.90	R-24A	26.80	S-5Z	3.95	T-101X	5.55		
G-391	31.50	HSM-272	55.50	N-1X	6.45	R-24B	26.80	S-6X	2.60	TY-27XT	6.25		
G-394	31.50	HS-273P	28.00	N-3M	13.10	R-25A	42.40	S-7X	2.75	TY-28XT	6.25		
G-401	32.65	HSM-301	19.70	N-4M	16.10	R-26A	29.50	S-8X	2.65	TY-44X	6.25		
G-435	32.65	HSM-302	18.05	N-5M	19.15	R-27A	54.20	S-9X	4.05	TY-45X	6.25		
G-437	32.65	HS-303	19.65	N-7M	27.10	R-28A	41.20	S-9Z	4.05	TY-46X	4.25		
G-455	32.65	HSM-305	25.53	N-9M	58.36	R-29A	8.90	S-11X	2.75	TY-47X	6.60		

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