Low Level Audio

HERMETICALLY SEALED

Triad low-level audio transformers have been adopted as standard by many manufacturers of the finest in audio equipment. No other transformers offer such wide frequency range and such effective magnetic shielding in such small size. Shielding up to 95 db. is attained by multiple "Trialloy" cases interleaved with heavy copper shading rings. These transformers are solidly constructed, rigidly mounted with welded stainless steel studs, and hermetically sealed to MIL-T-27 specifications. Beautiful appearance, unmatched performance, long life, minimum size, are outstanding features of these quality transformers.

AUDIO INPUT Transformers

Type No.	Application	Primary Impedance	Turn Ratio	Secondary Impedance	Freq. Resp.	Max. Level DBM	Shielding	Case
HS-1	Univ. line or mike to grid.	600*/250*/ 150/62.5	1:11.3	77000	20-20000	10	P-5	GP-4
HS-11	Same as avove.						P-1	GP-2
HS-3	Univ. line or mike to p.p. class A grids.	600*/250*/ 150/62.5	1:14 overall	117600 CT.	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	Line to one or two grids. DC in pri.	600*/250*/ 150/62.5 (10 Ma.)	1:8 overall	38400 CT.	30-20000	20	P-3	GP-5
HS-5	Dynamic mike to grid—Hi-gain.	30-50	1:65.7	130000	50-10000	0	P-5	GP-4
HS-8	Line to p.p. class A grids—Hi-level.	600*/250*/ 150/62.5	1:14 overall	117600 CT.	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.	Application	Primary Impedance	Turn Ratio	Secondary Impedance	Freq. Resp.	Max. Level Pri. Volts	Shielding	Case
HS-23	Single plate to single grid.	15000	1:2.7	110000	20-20000	15	P-3	GP-4
HS-25	Single plate to p.p. class A grids.	15000	1:2.72 overall	110000 CT.	20-20000	25	P-1	GP-4
HS-35	Single plate to p.p. class A grids.	15000	1:2.72 overall	111000 CT.	20-20000	20	P-1	GP-2
HS-27	P.p. plates to p.p. class A grids.	20000/ 5000	1:1.72 overall	60000 CT.	20-20000	50	P-1	GP-4
→ HS-29	Bridging-line to 1 or 2 grids.	20000/ 5000	1:2 overall	80000 CT.	20-20000	20	P-5	GP-4
HSM-31	P.p. 6J5's or parallel-fed 6F6 triode to AB grids.	20000/ 5000	1:1 or 2:1	20000 or 5000 CT.	20-20000	240		FA
HS-32	Single plate to p.p. grids. DC in pri.	15000 (6 Ma.)	1:2 overall	60000 CT.	20-15000	20	P-1	GP-5

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

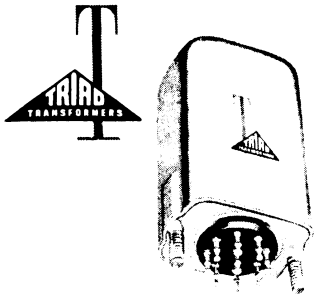
AUDIO LOW LEVEL OUTPUT, MIXING, MATCHING, BRIDGING

Type No.	Application	Primary Impedance	Secondary Impedance	Freq. Resp.	Max. Level DBM	Shielding	Case
HS-50	Plate to universal line.	15000	600*/250*/ 150/62.5	20-20000	26	P-3	GP-4
HS-60	Plate to universal line.	15000	600*/250*/ 150/62.5	20-20000	10	P-1	GP-2
HS-61	Plate to universal line.—DC in pri.	15000 (5 Ma.)	600*/250*/ 150/62.5	50-15000	20	P-1	GP-5
HS-52	P.p. plates to universal line.	20000/ 5000	600*/250*/ 150/62.5	20-20000	26	P-1	GP-4
HS-54	Bridging, single or p.p. plates, to univ. line.	20000/ 5000	600*/250*/ 150/62.5	20-20000	10	P-5	GP-4
→ HS-56	Universal line to universal line.	600*/250*/ 150/62.5	600*/250*/ 150/62.5	10-30000	20	P-3	GP-4
HS-66	Same as above.			10-30000	20	P-1	GP-3
HS-58	Line-to-line, balanced resistance & capacities	600*/250*/ 150/62.5	600*/250*/ 150/62.5	20-30000	15	P-3H	GP-5

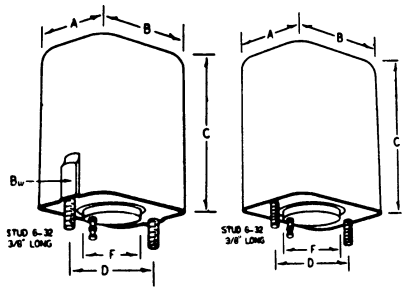
*Balanced center tap.

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

See table at right for shielding data.



HS Series (GP Case)



GP-1, -2, -3 **GP-4, -5**

Avoid redesign— Use Triad HS and HSM transformers in military prototypes

Triad HS and HSM series transformers are designed to meet MIL-T-27 requirements. Most of these transformers use standard MIL-T-27 case sizes. Exceptions are GP cases or any cases showing a Bw dimension, which may be classified as MIL-T-27 'YY' cases. Equipment using these transformers need not be redesigned to submit for military approval. The basically good design factors which are necessary to meet MIL-T-27 standards for performance ensure longest life in any class of service.

These transformers are permanently marked with electrical and test data as specified in MIL-T-27. All are "Climatite" treated, use sturdy TRIAD terminals and are beautifully finished in grey enamel.

	GP-1	GP-2	GP-3	GP-4	GP-5
A	7/8	1 1/16	1 1/4	1 7/16	1 5/8
B	1 1/16	1 1/4	1 1/2	1 3/4	2
Bw	1 1/8	1 11/32	1 9/16		
C	1 11/16	2 1/4	2 3/4	2 1/2	2 3/4
D	1 3/32	1 3/16	1 1/2	1 1/2	1 1/2
F	3/4	3/4	15/16	15/16	15/16
Wt.	3 oz.	5 1/2 oz.	8 oz.	12 oz.	17 oz.

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 — 95db. reduction in pickup.

See Page 13 for exploded view.