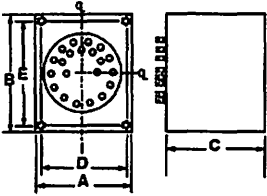


LINEAR STANDARD AUDIO TRANSFORMERS



• High Fidelity, Broadcast Requirements, Low Distortion, High Efficiency



| Case No. | A (MAX) | B (MAX) | C (MAX) | D (± 0.031) | E (± 0.031) | INSERTS |
|----------|---------|---------|---------|-------------------|-------------------|------------|
| LS-1 | 2.50 | 3.00 | 3.31 | 1.937 | 2.437 | 8 X #6-32 |
| LS-2 | 3.25 | 4.25 | 4.25 | 2.688 | 3.688 | 8 X #8-32 |
| LS-3 | 4.78 | 5.62 | 4.78 | 4.188 | 5.031 | 8 X #10-32 |

Input and Matching Transformers - Many Other Standard Parts Available - Call for Custom Requirements

| Type Number | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max Level dbm | Relative* Hum | Unbal. DC in Primary | Case No. |
|-------------|---|---|---|-----------------|---------------|---------------|----------------------|----------|
| LS-10 | Low impedance mike, pickup or multiple line to push pull grids | 50, 125/150, 200/250, 333, 500/600 ohms | 60,000 ohms in two sections | 20-20,000 | +19 | -74 db | .5 ma | LS-1 |
| LS-10X | As above | As above | 50,000 ohms | 20-20,000 | +17 | -92 db-Q | .5 ma | LS-1 |
| LS-12X | Low impedance mike, pickup or multiple line to push pull grids | 50, 125/150, 200/250, 333, 500/600 ohms | 80,000 ohms overall, split | 20-20,000 | +17 | -92 db-Q | .5 ma | LS-1 |
| LS-14X | Low impedance mike, pickup or parallel mixer to grid | 2.5, 5.5, 10, 15, 22, 30, 38, 60 ohms | 50,000 ohms | 20-20,000 | +17 | -92 db-Q | .5 ma | LS-1 |
| LS-26 | Bridging line to single or push pull grids | 5,000 ohms | 60,000 ohms in two sections | 15-20,000 | +23 | -74 db | .0 ma | LS-1 |
| LS-30† | Mixing, Low impedance mike, pickup or multiple line to multiple line | 50, 125/150, 200/250, 333, 500/600 ohms | 50, 125/150, 200/250, 333, 500/600 ohms | 7-50,000 | +23 | -74 db | .5 ma | LS-1 |
| LS-30X† | As above | As above | As above | 20-20,000 | +20 | -92 db-Q | .3 ma | LS-1 |
| LS-31 | Three isolated lines or pads to multiple line | 30/50, 200/250 ohms each primary | 50, 125/150, 200/250, 333, 500/600 ohms | 20-20,000 | +23 | -74 db | .5 ma | LS-1 |
| LS-66† | Mixing, matching line or transistor to 2 simultaneous loaded lines or transistors | 600/150 split | 2 secondaries each 600/150 split | 20-40,000 | +15 | -92 db-Q | 0 ma | LS-1 |

Hybrid and Repeat Coils

| Type Number | Application | Primary and Secondary Impedance | ± 1 db from | Max Level dbm | Relative* Hum | Unbal. DC in Primary | Case No. |
|-------------|---|---|-----------------|---------------|---------------|----------------------|----------|
| LS-140† | Line to line for isol. balanced and unbal. cir.; bal. for max. cross talk 70 db | 500/600 ohms split 500/600 ohms split | 30-20,000 | +18 | -92 db-Q | 0 ma | LS-1 |
| LS-141 | Three sets of bal. wind. for hybrid service, center tapped | 500/600 ohms 500/600 ohms, Turns Ratio 1:1:1 | 30-15,000 | +18 | -74 db | 0 ma | LS-1 |

Plate, Crystal, Photocell, and Bridging to Line Transformers

| Type Number | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max Level | Relative* Hum | Unbal. DC in Primary | Case No. |
|-------------|--|----------------------------|------------------------------------|-----------------|-----------|---------------|----------------------|----------|
| LS-27 | Single pt. to multiple line | 15,000 ohms | 50, 125/150, 200/250, 333, 500/600 | 30-15,000 | 200 mw | -74 db | 8 ma | LS-1 |
| LS-50 | Single pt. to multiple line | 15,000 ohms | 50, 125/150, 200/250, 333, 500/600 | 10-40,000 | 200 mw | -74 db | 0 ma | LS-1 |
| LS-51 | Push pull low level pl to multiple line | 30,000 ohms plate to plate | 50, 125/150, 200/250, 333, 500/600 | 10-40,000 | 250 mw | -74 db | 1ma | LS-1 |
| LS-150 | Bridging from 50 to 500 ohm line to line | 4,000 ohms, bridging | 50, 125/150, 200/250, 333, 500/600 | 7-50,000 | 200 mw | -74 db | 1ma | LS-1 |
| LS-151 | Bridging from 50 to 500 ohm | 16,000 ohms, bridging | 50, 125/150, 200/250, 333, 500/600 | 7-50,000 | 400 mw | -74 db | 1ma | LS-1 |

High Level Matching Transformers

| Type Number | Application | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* Hum | Unbal. DC in Primary | Case No. |
|-------------|--------------------------|---|--|-----------------|------------|---------------|----------------------|----------|
| LS-33 | High level line matching | 50, 125/150, 200/250, 333, 500/600 ohms | 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125/150, 200/250, 333, 500/600 | 10-40,000 | 20 watts | - | - | LS-2 |
| LS-34 | High level line matching | 50, 125/150, 200/250, 333, 500/600 ohms | 1.2, 2.5, 5, 7.5, 10, 15, 20, 30, 50, 125/150, 200/250, 333, 500/600 | 10-40,000 | 40 watts | - | - | LS-3 |

Output Transformers to Line and Voice Coil

| Type Number | Primary Will Match Typical Tubes | Primary Impedance | Secondary Impedance | ± 1 db from | Max. Level | Relative* Hum | Unbal. DC in Primary | Case No. |
|-------------|--|--|--|----------------------|----------------------|---------------|----------------------|--------------|
| LS-54 | Push pull 6AQ5, 6V6, 6L6, 5881 | 8,000 ohms | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 7-50,000 | 20 watts | - | - | LS-2 |
| LS-55 | Push pull 300B, 6L6's 6AS7G, 6080, 7027, 7581, 7355, 7868 | 5,000 ohms plate to plate and 3,000 ohms plate to plate | 500, 333, 250/200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 7-50,000 7-50,000 | 20 watts 20 watts | - - | - - | LS-2 LS-2 |
| LS-61 | Push pull triads: 6A57G, 6080, 6L6, 5881, KT-66, 807, 1614 | 10,000 ohms plate to plate and 6,000 ohms plate to plate | 500, 333, 250/200, 125, 50, 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 7-50,000 | 20 watts | - | - | LS-2 |
| LS-63 | Same as above | 10,000 ohms plate to plate and 6,000 ohms plate to plate | 30, 20, 15, 10, 7.5, 5, 2.5, 1.2 | 7-50,000 | 20 watts | - | - | LS-2 |
| LS-35 | EL-34 in AS-feedback | 5,000 ohms, CT 43% screen taps | 4, 8, 16 | 7-50,000 | 35 watts | - | - | LS-3 |
| LS-667 | Push pull transistors class B (2N277 or equivalent) | 8 ohms split | 4, 8, 16 | 7-50,000 | 50 watts | - | - | LS-3 |

The values of unbalanced DC shown will effect approximately 1.5 db loss at 30Hz.

* Comparison of hum balanced unit with shielding to normal uncased type Q=Multiple alloy magnetic shields.

† High electrostatic shielding.