

108F

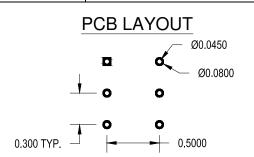
MINIATURE EPOXY POTTED AUDIO TRANSFORMER

Audio input, line matching and output transformers Epoxy potted in an attractive molded case, Pin type, P.C. board mount, (min. 0.187" length) Rugged epoxy potted construction produces a completely sealed unit withstanding severe environmental conditions. In some models where no center tap is present (on the secondary), pin 5 is omitted. Secondary may be used as primary and primary as secondary. Will withstand soldering for 10 sec. @ 260 degrees C, ambient temp. 85 degrees C max.

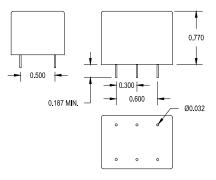
Power level: 500mw @ 300 Hz. to 50 Khz. -Freq. range @ +0 dbm is 300 Hz. to 50 Khz. +/- 2.5db -Freq. range @ +15 dbm is 300 Hz. to 50 Khz. +/- 2.5db -Freq. range @ +27 dbm is 300 Hz. to 50 Khz. +/- 2.5db -Freq. measurements with no D.C. saturation.

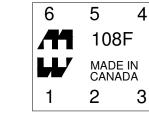
ELECTRICAL SPECIFICATIONS

| Characteristic | Typical |
|---------------------|----------------------------|
| Input Impedance | 600 ΩCT |
| Output Impedance | 150 ΩCT |
| Output Power | 0.500 Watts |
| DCR | |
| Primary 1-3 | 54 Ω (27Ω/27Ω) |
| Secondary 4-6 | 17.0 Ω (8.5Ω/8.5Ω) |
| Inductance | @ 1.0 kHz, 1.0 V OC |
| Primary | 0.95 Hy |
| Secondary | 0.24 Hy |
| | |
| Leakage Inductance | 3.26 mH |
| | |
| Impedance | @ 1.0 kHz, 1.0 V OC |
| Primary | 8.20 KΩ |
| Secondary | 2.00 ΚΩ |
| | |
| Frequency Response | ±2.5db from 300Hz to 50KHz |
| Unbalanced DC | 6mA Max. |
| Turns ratio | 2:1 |
| Dielectric Strength | 100 Vrms |
| Temperature Range | -40 To 105°C** |
| | |



6 5 4 1030 6 5 4 108F 0.770 0.770 1 2 3



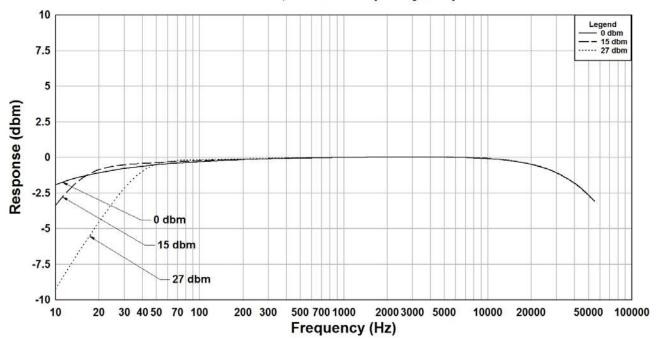


Hammond Mfg. Co. Ltd., Electronics Division

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108F Rs=600, RI= 150 THD+N 108F Rs=600, RI= 150 Phase Shift 50 120 Legend 0 dbm ---- 15 db 27 db Legend 0 dbm --- 15 db --- 27 db 0 dbm 40 90 15 dbm 30 27 dbm 60 27 dbn 15 dbm (%) N+DH1 20 30 Degrees 0 dbm 10 0 -30 -10 -60 -20 -90 20 30 40 50 70 100 200 300 500 700 1000 2000 3000 5000 10000 20000 50000 100000 10 10 20 30 40 50 70 100 200 300 500 700 1000 2000 3000 5000 10000 20000 50000 100000 Frequency (Hz) Frequency (Hz)

Measurement instruments Hp4192a impedance analyzer Hp3456a DVM Keithley 2002 DVM D scope series iii audio analyzer

TYPICAL TEST CIRCUIT

**The epoxy that is used to cast these parts has a workable temperature range of -40°C to +105°C Under a normal rate of change, this does not include thermal shock. Variations in the transformer materials and environmental conditions may reduce the workable temperature range.

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108F Rs=600, RI= 150 Frequency Response