

107L

MINIATURE EPOXY POTTED AUDIO TRANSFORMER

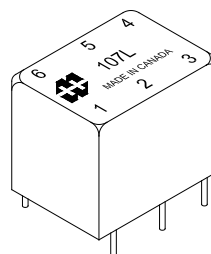
Audio input, line matching and output transformers
Epoxy potted in an attractive molded case, Pin type, P.C. board
mount, (min. 0.187" length)

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: 150mw @ 150 Hz. to 50 Khz.

-Freq. range @ +0 dbm is 150 Hz. to 80 Khz. +/- 1.5db

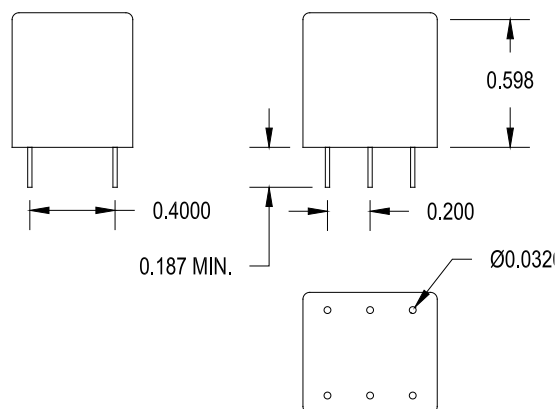
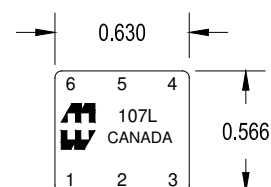
-Freq. range @ +10 dbm is 150 Hz. to 80 Khz. +/- 1.5db

-Freq. range @ +20 dbm is 150 Hz. to 80 Khz. +/- 1.5db

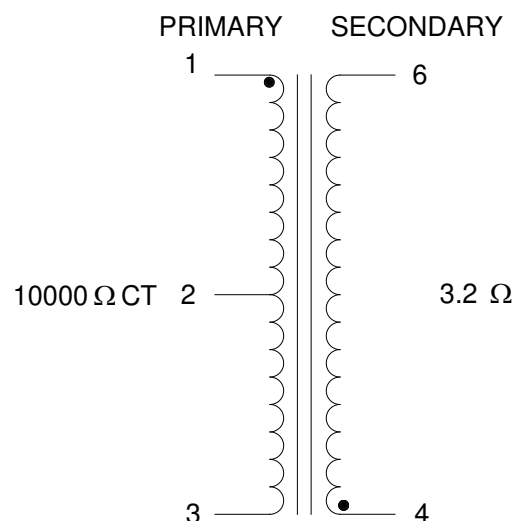
-Freq. measurements with no D.C. saturation.

ELECTRICAL SPECIFICATIONS

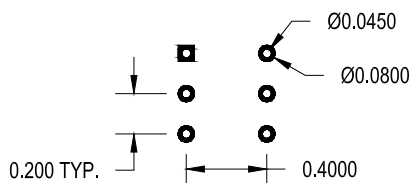
| Characteristic | Typical |
|---------------------|--|
| Input Impedance | 10000 Ω CT |
| Output Impedance | 3.2 Ω |
| Output Power | 0.150 Watts |
| DCR | |
| Primary 1-3 | 650 Ω (370 Ω /280 Ω) |
| Secondary 4-6 | 0.36 Ω |
| Inductance | @ 1.0 kHz, 1.0 V OC |
| Primary | 9.12 Hy |
| Secondary | 2.61 mH |
| | |
| | |
| | |
| Impedance | @ 1.0 kHz, 1.0 V OC |
| Primary | 43.4 K Ω |
| Secondary | 12.8 Ω |
| | |
| Frequency Response | ± 1.5 db from 300Hz to 50KHz |
| Turns ratio | 55.3:1 |
| | |
| Dielectric Strength | 100 Vrms |
| Temperature Range | -40 To 105°C** |



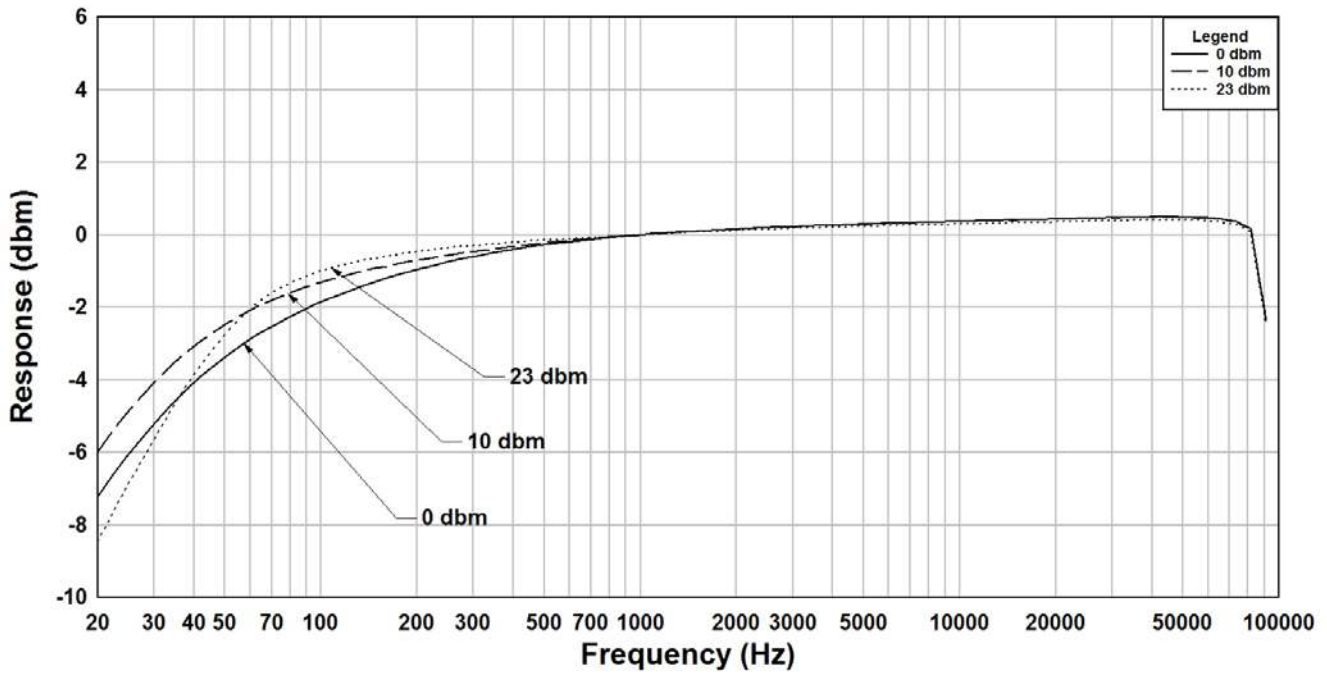
SCHEMATIC DIAGRAM



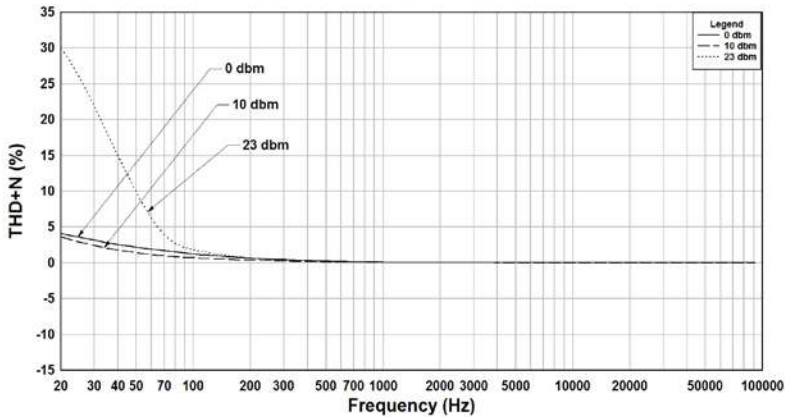
PCB LAYOUT



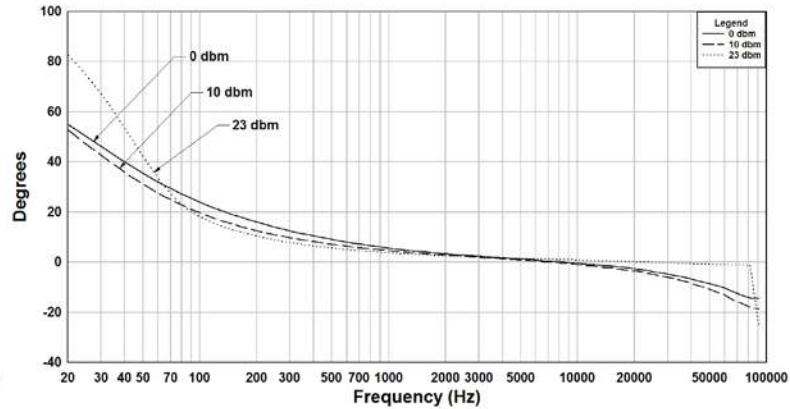
107L Rs=10K, R=3.2 Frequency Response



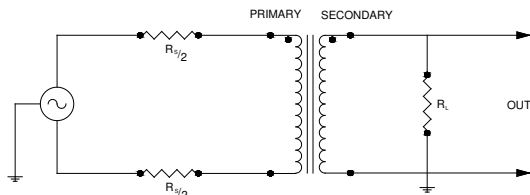
107L Rs=10K, R=3.2 THD+N



107L Rs=10K, RI=3.2 Phase Shift



TYPICAL TEST CIRCUIT



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

** The epoxy that is used to cast these parts has a workable temperature range of -40°C to $+105^{\circ}\text{C}$
 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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