

107G

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.

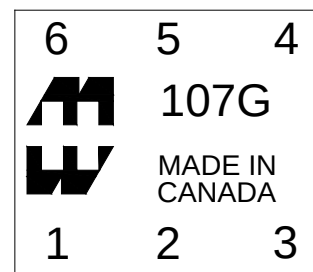
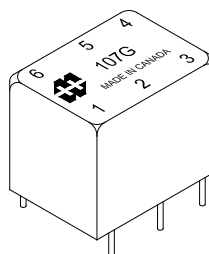
Power level: 150mw @ 150 Hz. to 50 KHz.

-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

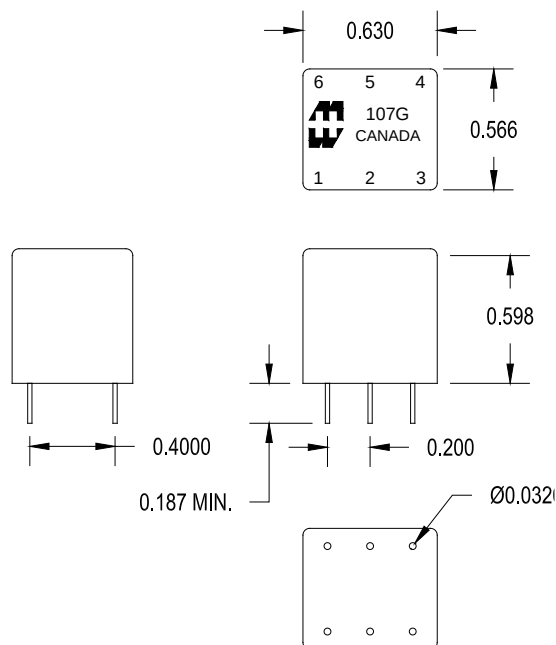
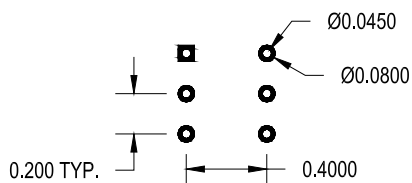
-Freq. measurements with no D.C. saturation.



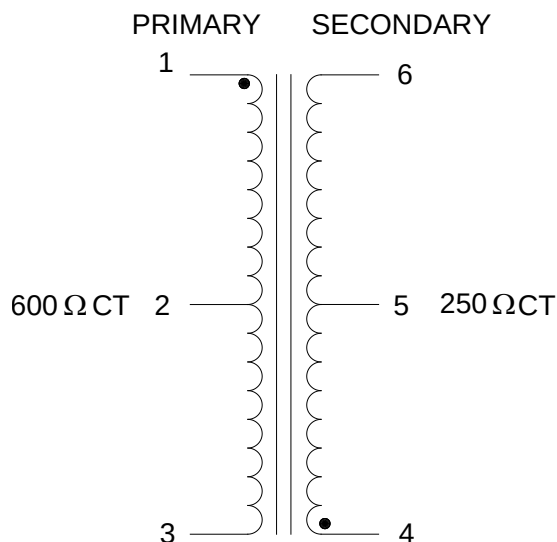
ELECTRICAL SPECIFICATIONS

Characteristic	Typical
Input Impedance	600 Ω CT
Output Impedance	250 Ω CT
Output Power	0.150 Watts
DCR	
Primary 1-3	60 Ω (30 Ω /30 Ω)
Secondary 4-6	40 Ω (20 Ω /20 Ω)
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	0.95 Hy
Secondary	0.44 Hy
Leakage Inductance	300 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	4.7 K Ω
Secondary	2.1 K Ω
Frequency Response	± 1.5 db from 300Hz to 50KHz
Turns ratio	1.52:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**

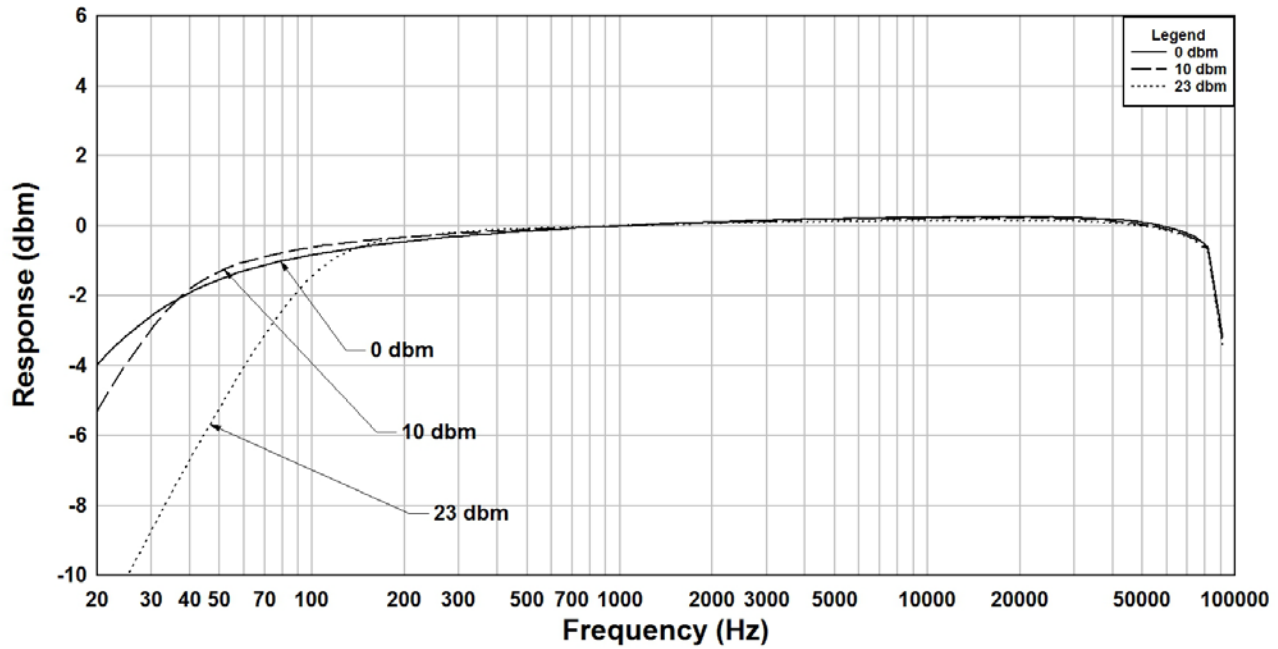
PCB LAYOUT



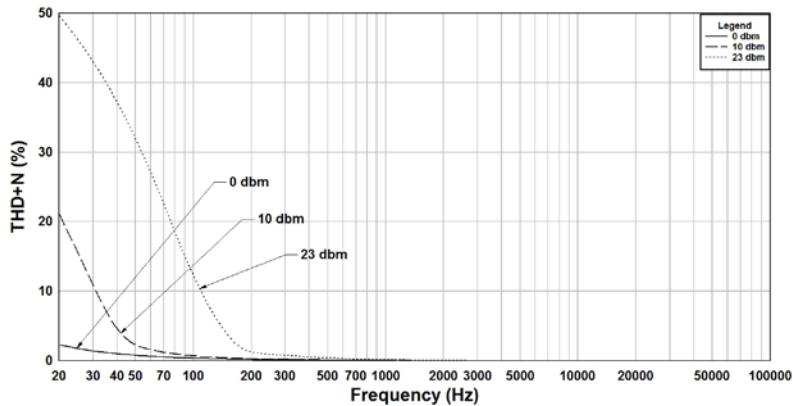
SCHEMATIC DIAGRAM



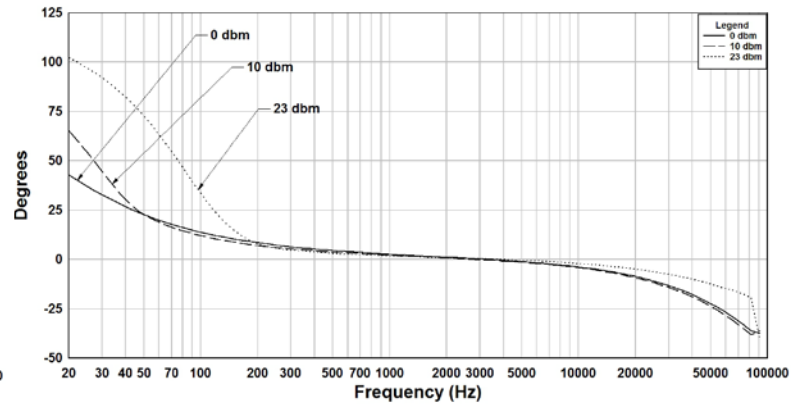
107G Rs=600, RI=250 Frequency Response



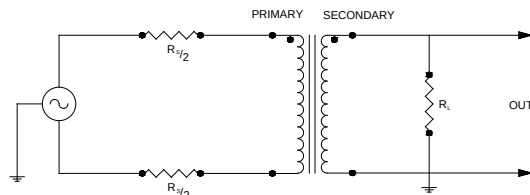
107G Rs=600, RI=250 THD+N



107G Rs=600, RI=250 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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