

109H

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.

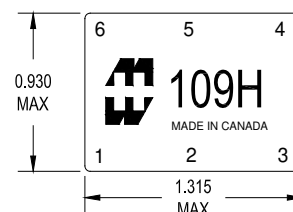
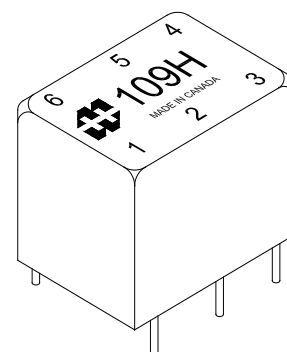
Power level: 2.0W @ 300 Hz. to 50 KHz.

-Freq. range @ +0 dbm is 300 Hz. to 50 KHz. +/- 1.5db

-Freq. range @ +10 dbm is 300 Hz. to 50 KHz. +/- 1.5db

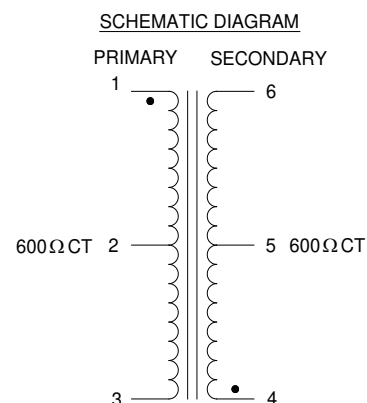
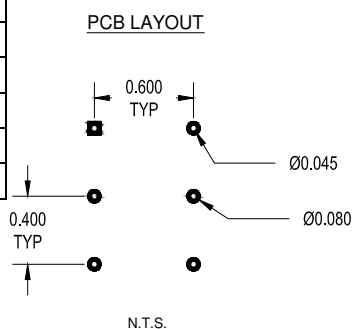
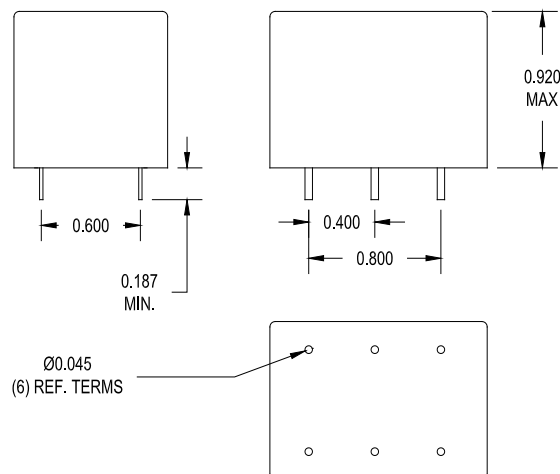
-Freq. range @ +27 dbm is 300 Hz. to 50 KHz. +/- 1.5db

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

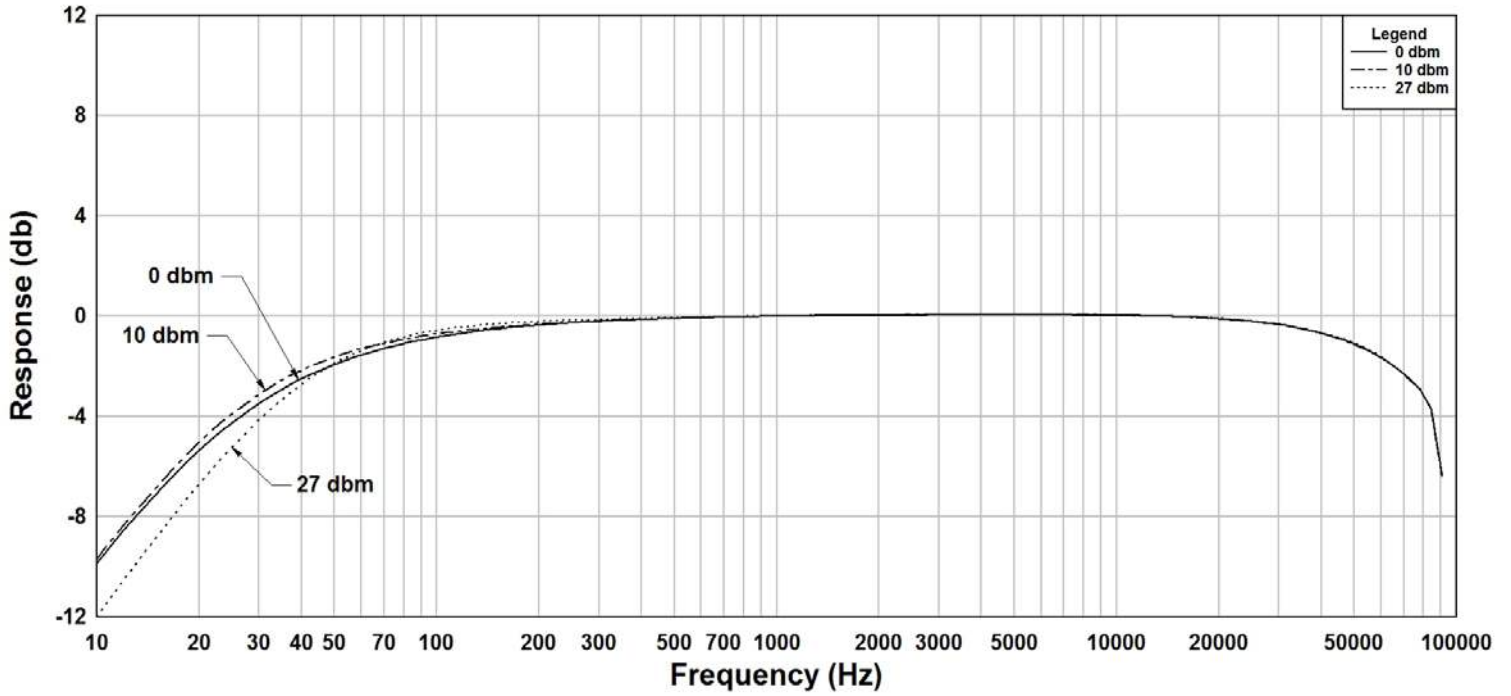


ELECTRICAL SPECIFICATIONS

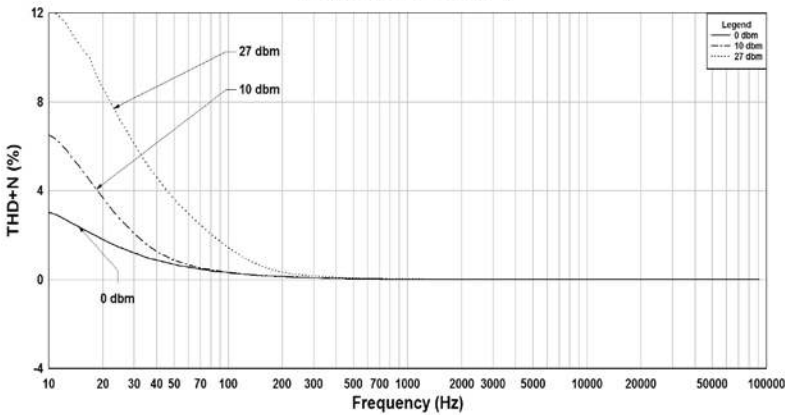
Characteristic	Typical
Input Impedance	600 ΩCT
Output Impedance	600 ΩCT
Output Power	2 Watts
DCR	
Primary 1-3	40.38 Ω (20.19Ω/20.19Ω)
Secondary 4-6	52.32 Ω (26.16Ω/26.16Ω)
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	0.78 H
Secondary	784.0 mH
Leakage Inductance	2.55 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	5.249 KΩ
Secondary	5.251 KΩ
Frequency Response	±1.5db from 300Hz to 50KHz
Unbalanced DC	6mA Max.
Turns ratio	1:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**



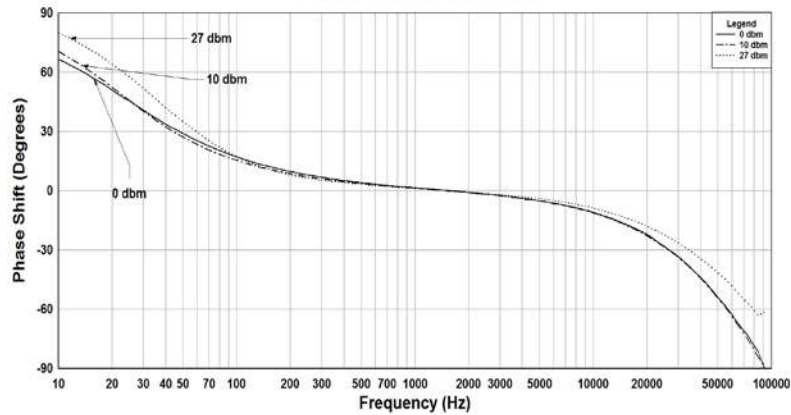
109H Rs=600, RI=600 Frequency Response



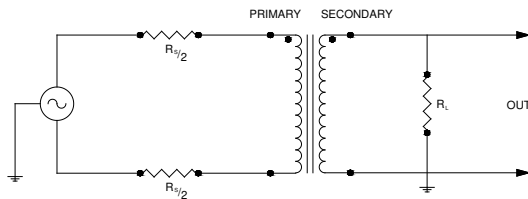
109H Rs=600, RI=600 THD+N



109H Rs=600, RI=600 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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