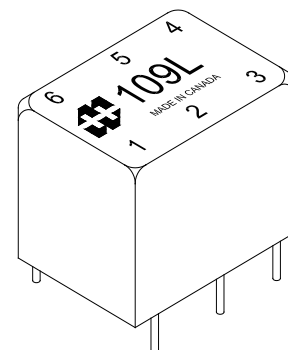


109L

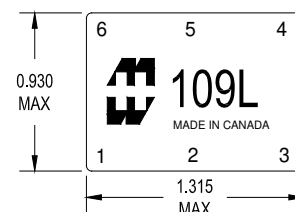
MINIATURE EPOXY POTTED AUDIO TRANSFORMER

- 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.



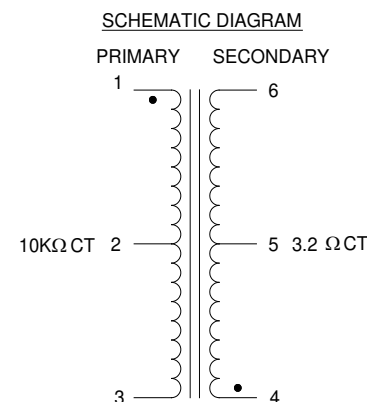
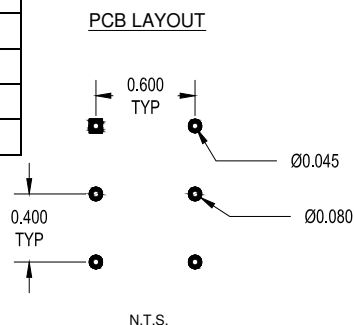
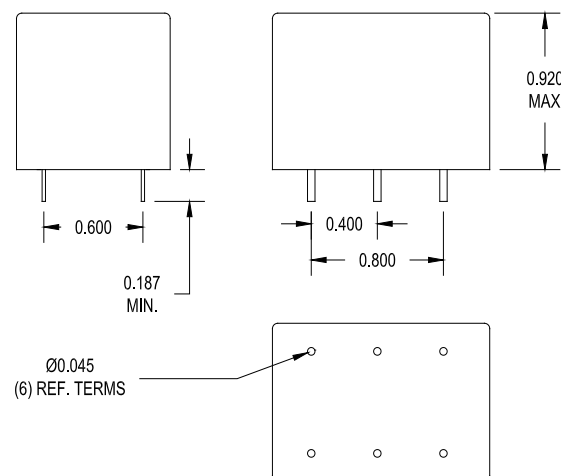
Power level: 2.0W @ 300 Hz. to 50 KHz.

- 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.

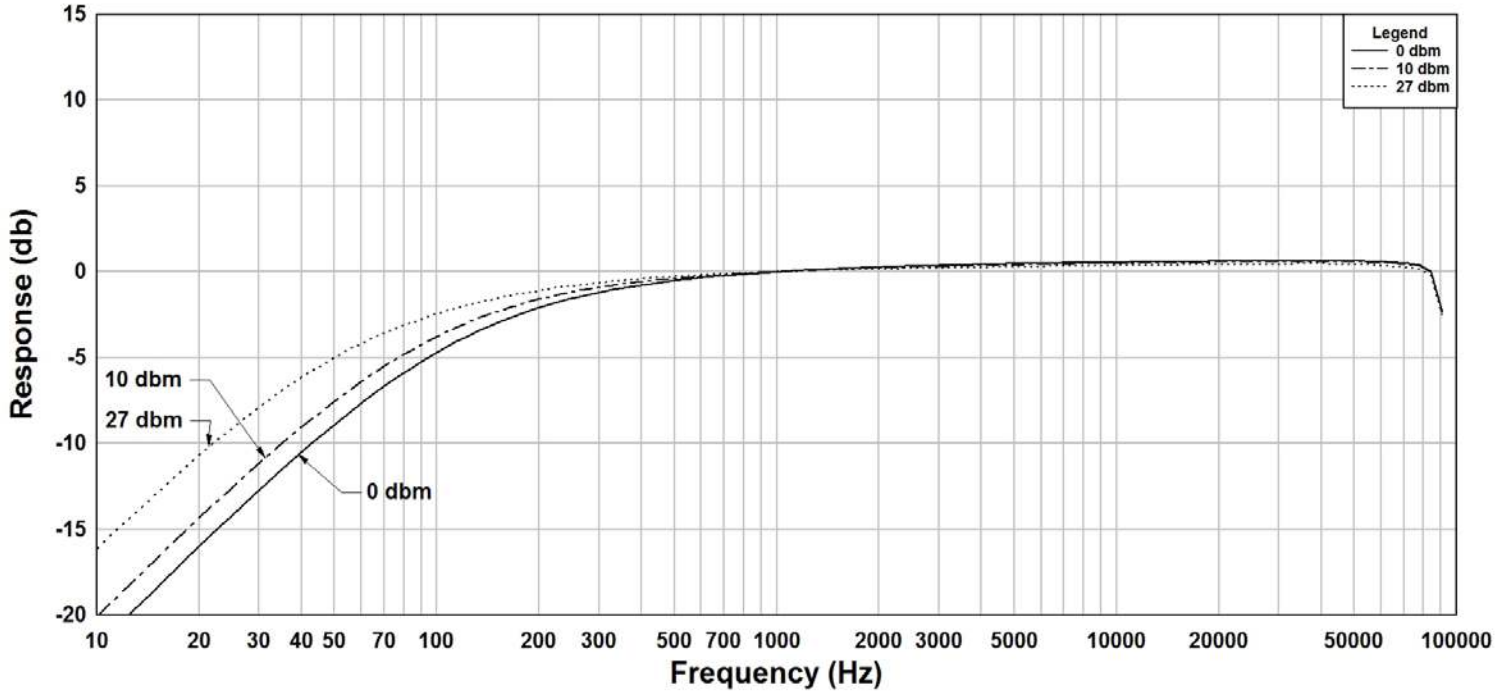


ELECTRICAL SPECIFICATIONS

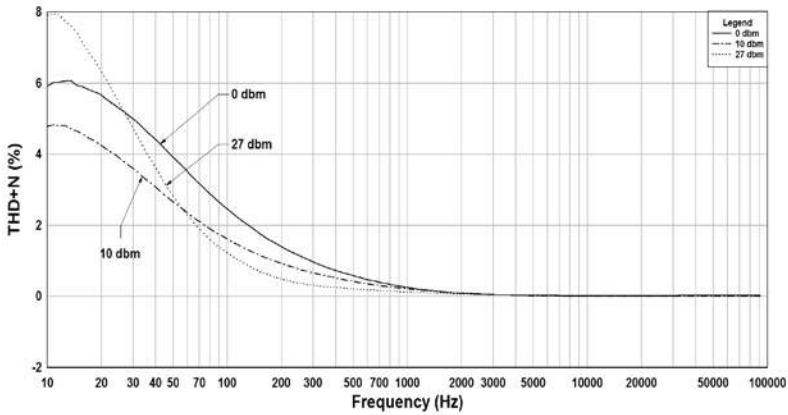
Characteristic	Typical
Input Impedance	10KΩCT
Output Impedance	3.2 ΩCT
Output Power	2 Watts
DCR	
Primary 1-3	300.0 Ω (150.0Ω/150.0Ω)
Secondary 4-6	0.20 Ω (0.10Ω/0.10Ω)
Inductance	@ 300 Hz, 1.0 V OC
Primary	5.81 H
Secondary	2.146 mH
Leakage Inductance	23.00 mH
Impedance	@ 300 Hz, 1.0 V OC
Primary	11.69 KΩ
Secondary	4.28 Ω
Frequency Response	±1.5db from 300Hz to 50KHz
Unbalanced DC	0.75mA Max.
Turns ratio	55.3:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**



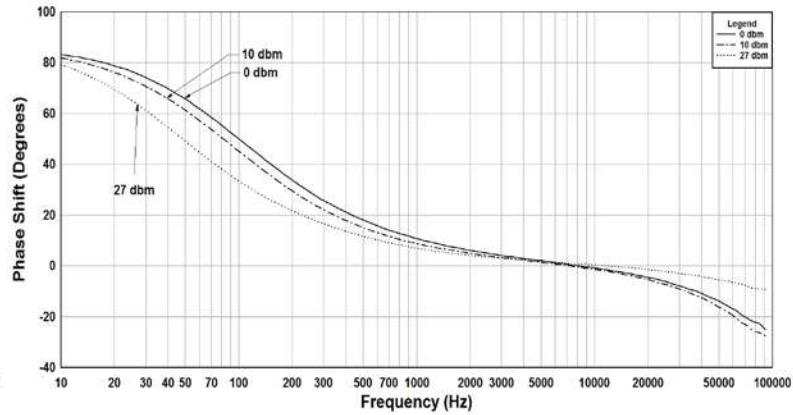
109L Rs=10K, RI=3.2 Frequency Response



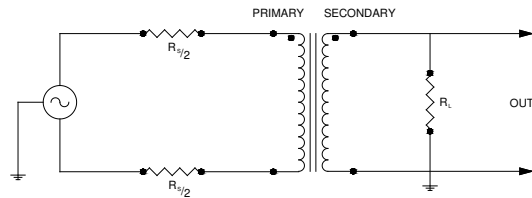
109L Rs=10K, RI=3.2 THD+N



109L 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.

This drawing and the information in it is the property of Hammond Manufacturing. It may not be reproduced, transmitted or used in any manner whatsoever without the written permission of Hammond Manufacturing. Data subject to change without notice.