Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

109K

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

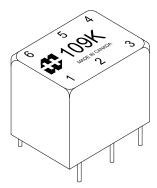
-Freq. range @ +10 dbm is 300 Hz. to 50 Khz. +/- 1.5db

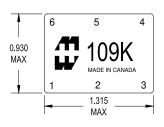
-Freq. range @ +27 dbm is 300 Hz. to 50 Khz. +/- 1.5db

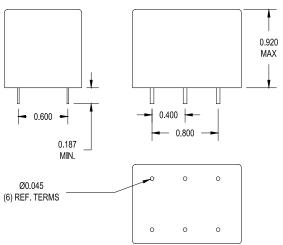
-Freq. measurements with no D.C. saturation.

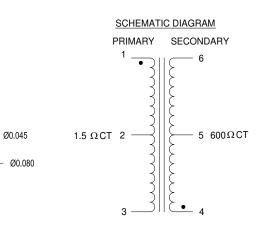
ELECTRICAL SPECIFICATIONS

Characteristic	<u>Typical</u>
Input Impedance	1.5K ΩCT
Output Impedance	600 ΩCT
Output Power	2 Watts
DCR	
Primary 1-3	102 Ω (51Ω/51Ω)
Secondary 4-6	60 Ω (30Ω/30Ω)
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	2.436 H
Secondary	1.011 H
Leakage Inductance	6.68 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	16.81 KΩ
Secondary	7.021 KΩ
Frequency Response	±1.5db from 300Hz to 50KHz
Unbalanced DC	6mA Max.
Turns ratio	1.58:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**
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PCB LAYOUT

- 0.600 TYP

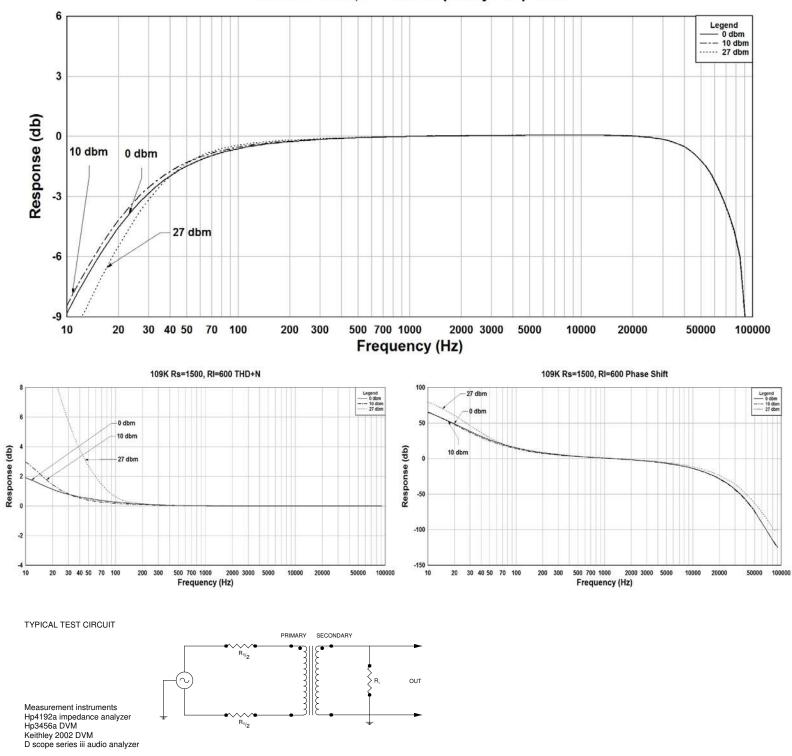
N.T.S.

a

0.400

TYP

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109K Rs=1500, RI=600 Frequency Response

**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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