Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

## 

## 109N

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.

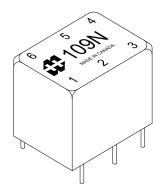
-Freq. range @ +0 dbm is 300 Hz. to 50 Khz. +/- 1.5db -Freq. range @ +10 dbm is 300 Hz. to 50 Khz. +/- 1.5db

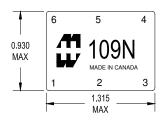
-Freq. range @ +10 dbm is 300 Hz. to 50 Khz. +/- 1.5db

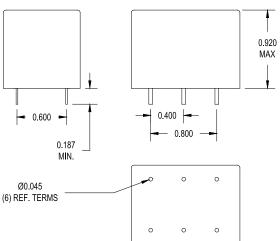
-Freq. measurements with no D.C. saturation.

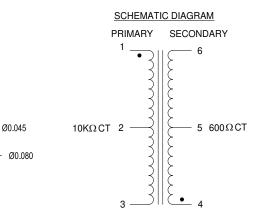
## **ELECTRICAL SPECIFICATIONS**

330Ω) 7Ω) / OC
330Ω) 7Ω)
7Ω)
7Ω)
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,
/ 0C
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2
to 50KHz
C**









PCB LAYOUT

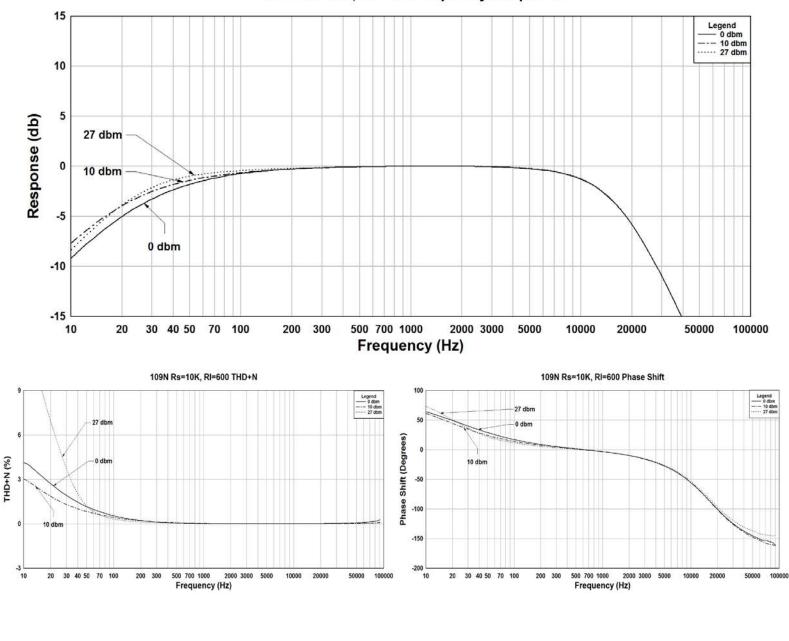
0.600 TYP

N.T.S.

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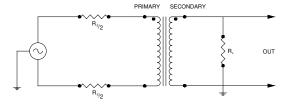
0.400 TYP

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## 109N Rs=10K, RI=600 Frequency Response

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  $-40^{\circ}$ C to  $+105^{\circ}$ 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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