



## 109J

## MINIATURE EPOXY POTTED AUDIO TRANSFORMER

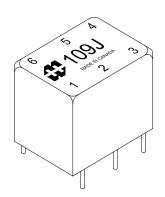
- · Audio input, line matching and output transformers
- Epoxy potted in an attractive molded case, Pin type, P.C. board mount, (min. 0.187" length)
- Rugged epoxy potted construction produces a completely
- sealed unit withstanding severe environmental conditions.
- In some models where no center tap 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.

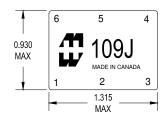
Power level: 2.0W @ 300 Hz. to 50 Khz.

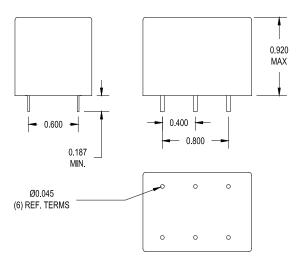
- -Freq. range @ +0 dbm is 300 Hz. to 50 Khz. +/- 1.5db
- -Freq. range @ +10 dbm is 300 Hz. to 50 Khz. +/- 1.5db
- -Freq. range @ +27 dbm is 300 Hz. to 50 Khz. +/- 1.5db
- -Freq. measurements with no D.C. saturation.

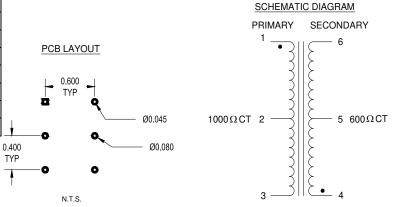
## **ELECTRICAL SPECIFICATIONS**

Characteristic	<u>Typical</u>
Input Impedance	1000ΩCT
Output Impedance	600 ΩCT
-	
Output Power	2 Watts
DCR	
Primary 1-3	$64~\Omega~(32\Omega/32\Omega)$
Secondary 4-6	51.5 $\Omega$ (25.75 $\Omega$ /25.75 $\Omega$ )
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	1.622 H
Secondary	996.8 mH
Leakage Inductance	4.86 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	11.564 KΩ
Secondary	7.042 KΩ
Frequency Response	±1.5db from 300Hz to 50KHz
Unbalanced DC	6mA Max.
Turns ratio	1.29:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**
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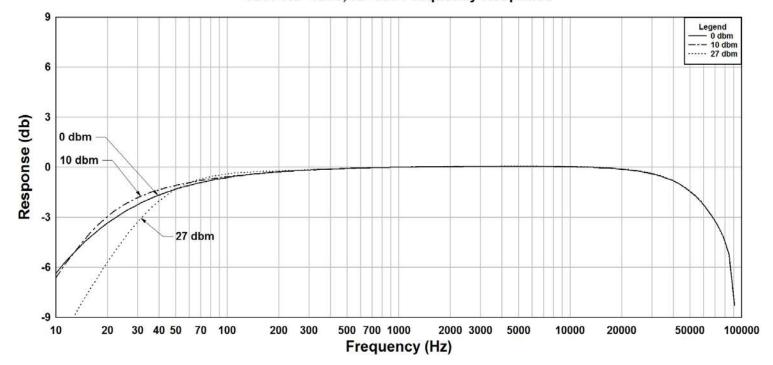


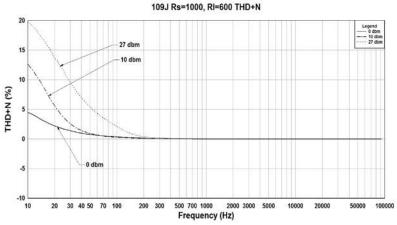


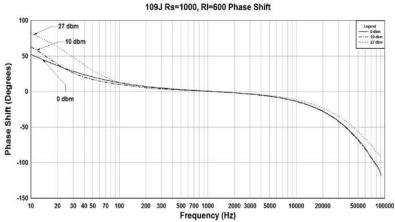




## 109J Rs=1000, RI=600 Frequency Response

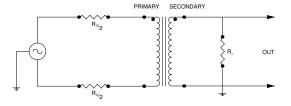






TYPICAL TEST CIRCUIT

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°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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