

108E

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.

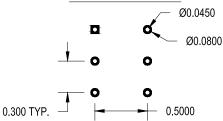
Power level: 500mw @ 300 Hz. to 50 Khz.

- -Freq. range @ +0 dbm is 300 Hz. to 50 Khz. +/- 1.75db
- -Freq. range @ +15 dbm is 300 Hz. to 50 Khz. +/- 1.75db
- -Freq. range @ +27 dbm is 300 Hz. to 50 Khz. +/- 1.75db
- -Freq. measurements with no D.C. saturation.

ELECTRICAL SPECIFICATIONS

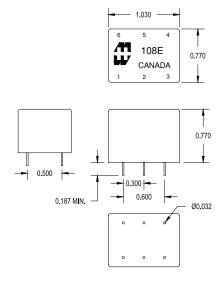
<u>Characteristic</u>	<u>Typical</u>
Input Impedance	600 ΩCT
Output Impedance	3.2 Ω
Output Power	0.500 Watts
DCR	
Primary 1-3	54 Ω (27Ω/27Ω)
Secondary 4-6	0.40 Ω
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	0.95 H
Secondary	5.5 mH
Leakage Inductance	2.60 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	8.20 KΩ
Secondary	53.5 Ω
Frequency Response	±1.75db from 300Hz to 50KHz
Unbalanced DC	6mA Max.
Turns ratio	13.71:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**

PCB LAYOUT

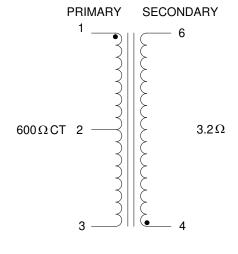




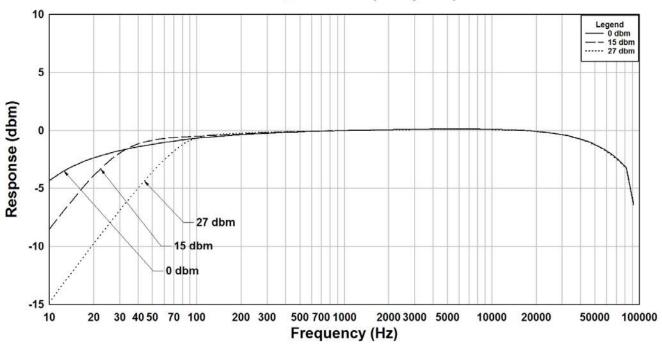


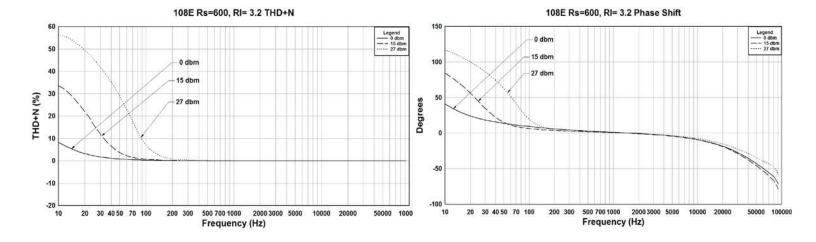


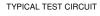
SCHEMATIC DIAGRAM

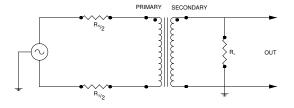


108E Rs=600, RI= 3.2 Frequency Response









Measurement instruments Hp4192a impedance analyzer Hp3456a DVM Keithley 2002 DVM
D scope series iii audio analyzer

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^{**}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.