

## 108G

### MINIATURE EPOXY POTTED AUDIO TRANSFORMER

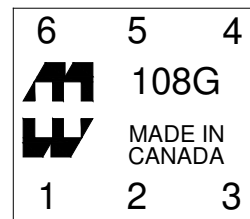
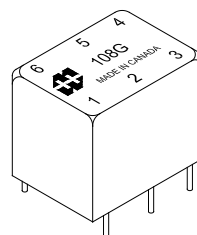
Audio input, line matching and output transformers  
Epoxy potted in an attractive molded case, Pin type, P.C. board  
mount, (min. 0.187" length)

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.



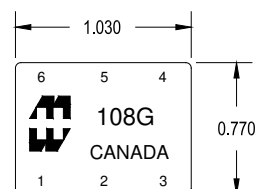
Power level: 500mw @ 300 Hz. to 50 Khz.

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

-Freq. range @ +15 dbm is 300 Hz. to 50 Khz. +/- 1.5db

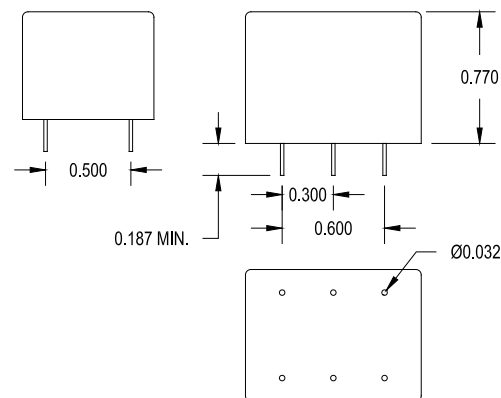
-Freq. range @ +27 dbm is 300 Hz. to 50 Khz. +/- 1.5db

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

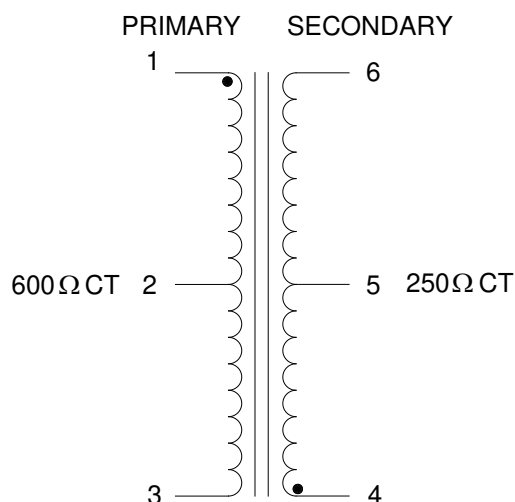


### ELECTRICAL SPECIFICATIONS

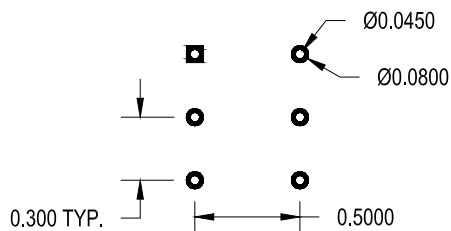
Characteristic	Typical
Input Impedance	600 ΩCT
Output Impedance	250 ΩCT
Output Power	0.500 Watts
DCR	
Primary 1-3	54 Ω (27Ω/27Ω)
Secondary 4-6	27.0 Ω (13.5Ω/13.5Ω)
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	0.95 Hy
Secondary	0.38 Hy
Leakage Inductance	3.00 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	8.20 KΩ
Secondary	3.33 KΩ
Frequency Response	±1.5db from 300Hz to 50KHz
Unbalanced DC	6mA Max.
Turns ratio	1.55:1
Dielectric Strength	100 Vrms
Temperature Range	-40 To 105°C**



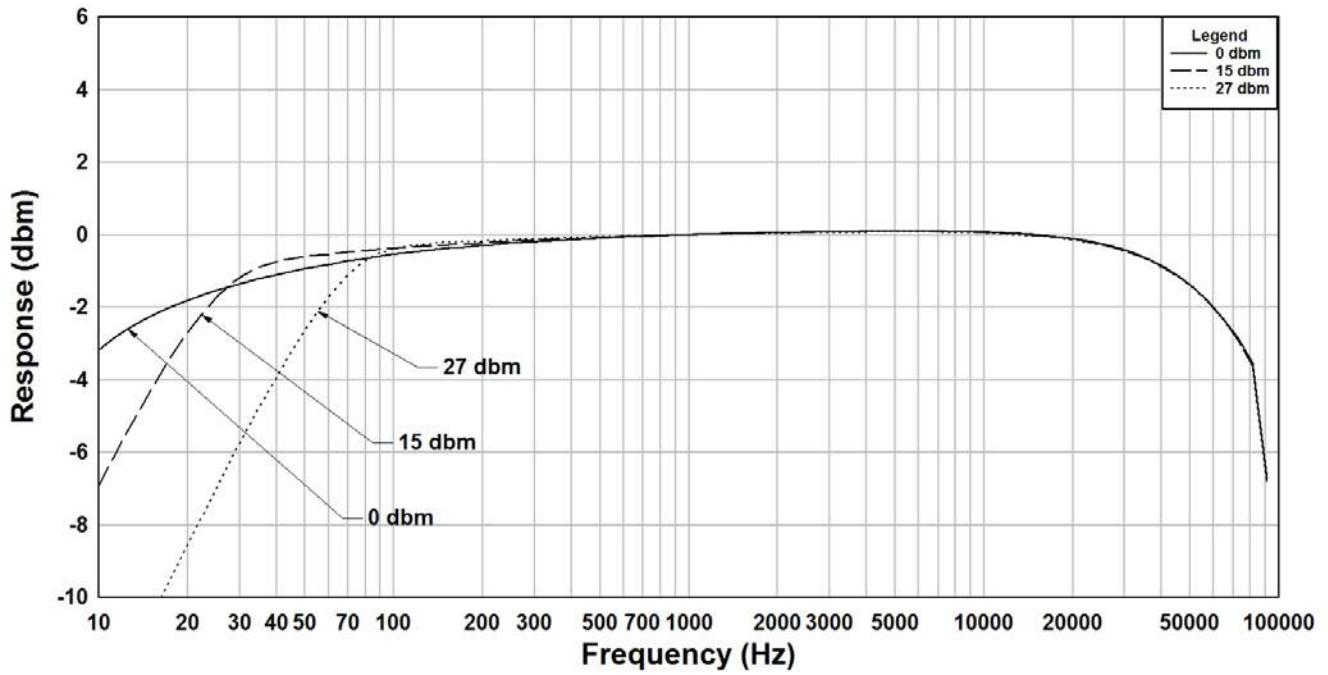
### SCHEMATIC DIAGRAM



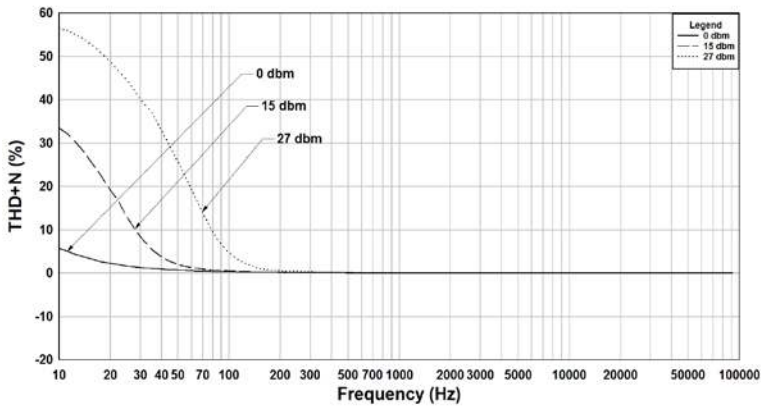
### PCB LAYOUT



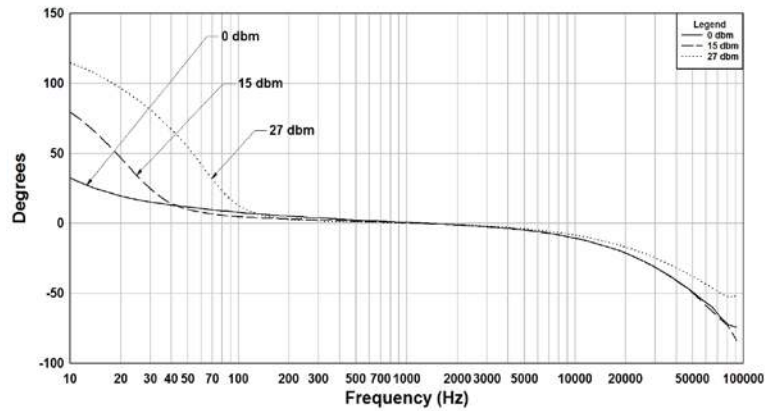
# 108G Rs=600, RI= 250 Frequency Response



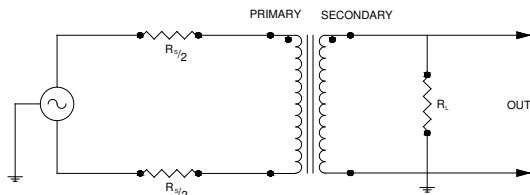
108G Rs=600, RI= 250 THD+N



108G Rs=600, RI= 250 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  $-40^{\circ}\text{C}$  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.

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