

101F

MINIATURE EPOXY POTTED AUDIO TRANSFORMER

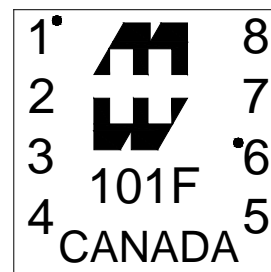
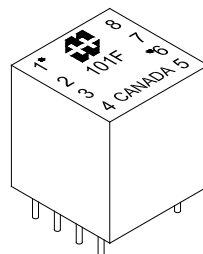
Pin type, P.C. board mount, net weight of only 0.1 oz.
 Rugged black epoxy potted construction produces a completely sealed unit withstanding severe environmental conditions.
 Secondary may be used as primary and primary as secondary.
 Power level: 100mw @ 300 Hz. to 100 Khz.

-Freq. range @ +10 dbm is 200 Hz. to 100 Khz. +/- 0.5db

-Freq. range @ +15 dbm is 200 Hz. to 100 Khz. +/- 0.5db

-Freq. range @ +20 dbm is 300 Hz. to 100 Khz. +/- 0.5db

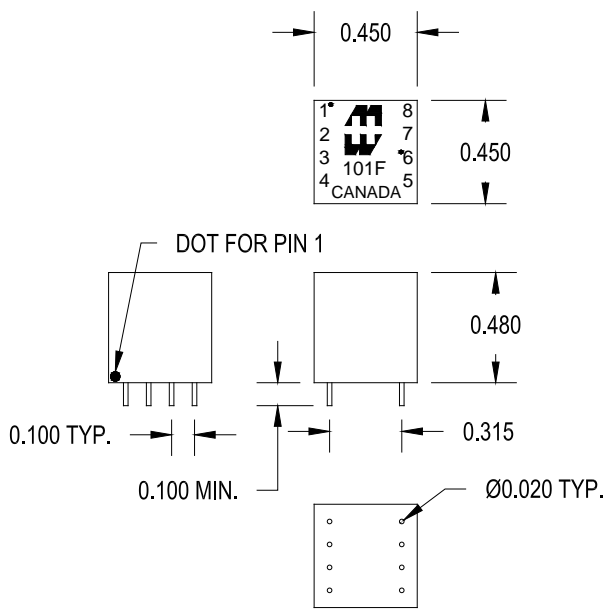
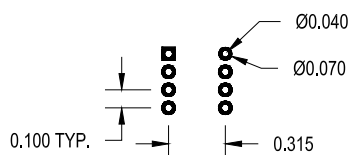
-Freq. measurements with no D.C. saturation.



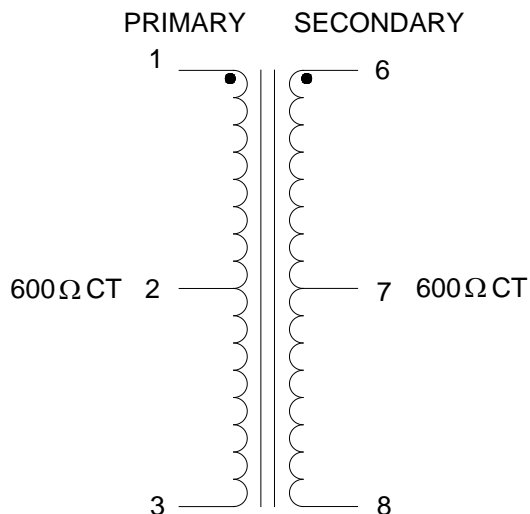
ELECTRICAL SPECIFICATIONS

Characteristic	Typical
Input Impedance	600 Ω CT
Output Impedance	600 Ω CT
Output Power	0.100 Watts
DCR	
Primary 1-3	44 Ω (22 Ω /22 Ω)
Secondary 6-8	52 Ω (26 Ω /26 Ω)
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	288 mH
Secondary	288 mH
Leakage Inductance	0.40 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	2.86 K Ω
Secondary	2.86 K Ω
Frequency Response	± 0.5 db from 200Hz to 100KHz
Turns ratio	1:1
Dielectric Strength	100 Vrms
No Connection	Pins 4 & 5
Storage Temp	-40 To 105°C**
Operating Temp	-40 To 85°C**

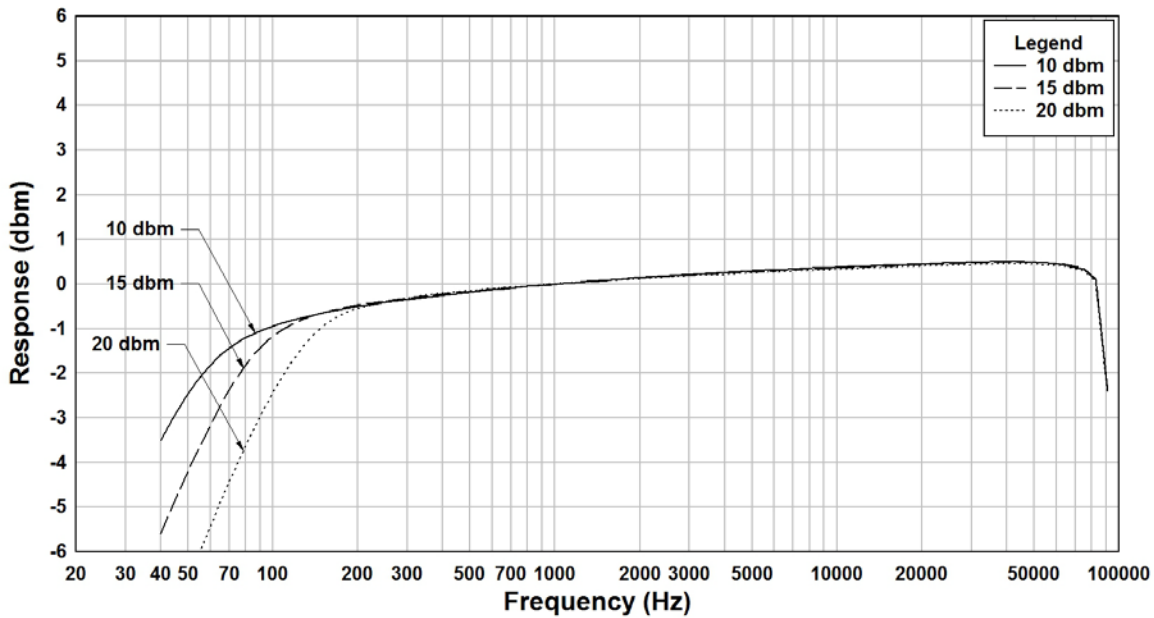
PCB LAYOUT



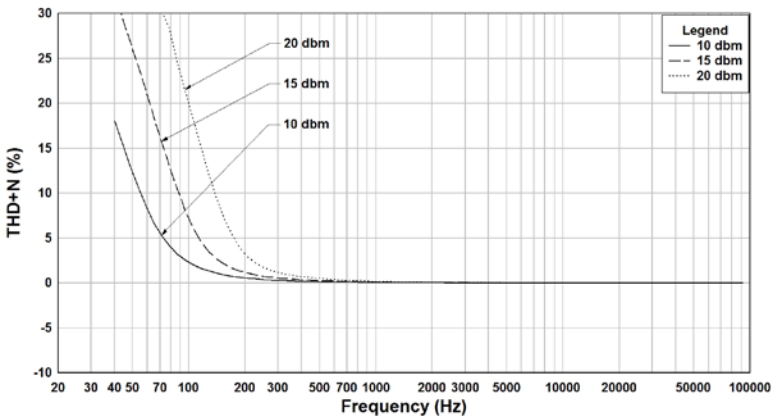
SCHEMATIC DIAGRAM



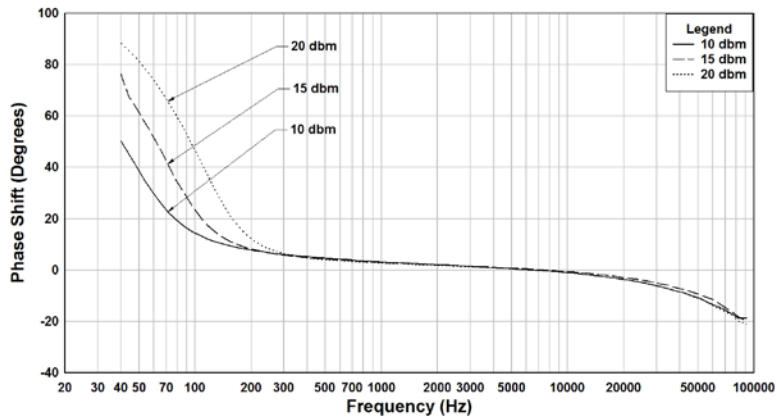
101F Frequency Response



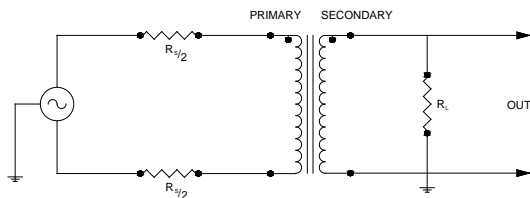
101F THD+N



101F 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°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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