

## 101F

### MINIATURE EPOXY POTTED AUDIO TRANSFORMER

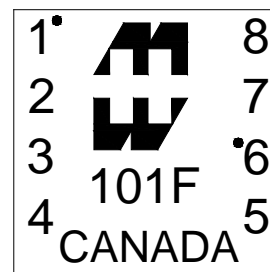
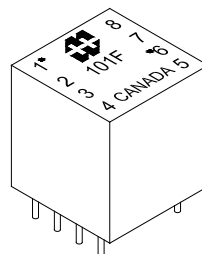
Pin type, P.C. board mount, net weight of only 0.1 oz.  
Rugged black epoxy potted construction produces a completely sealed unit withstanding severe environmental conditions.  
Secondary may be used as primary and primary as secondary.  
Power level: 100mw @ 300 Hz. to 100 KHz.

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

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

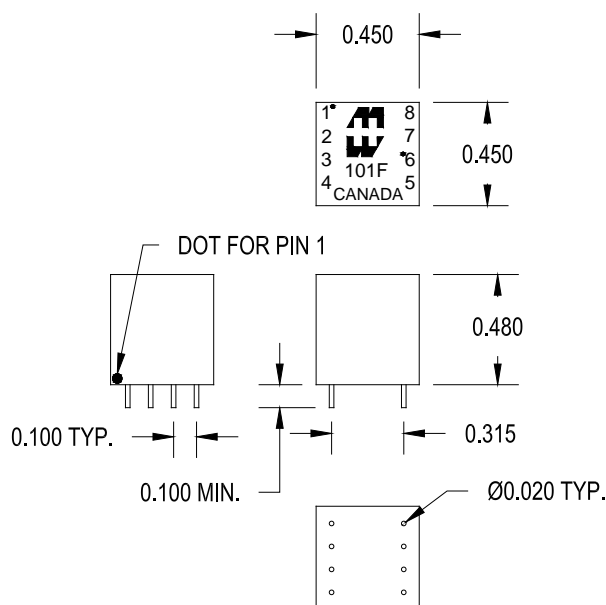
-Freq. range @ +20 dbm is 300 Hz. to 100 KHz. +/- 0.5db

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

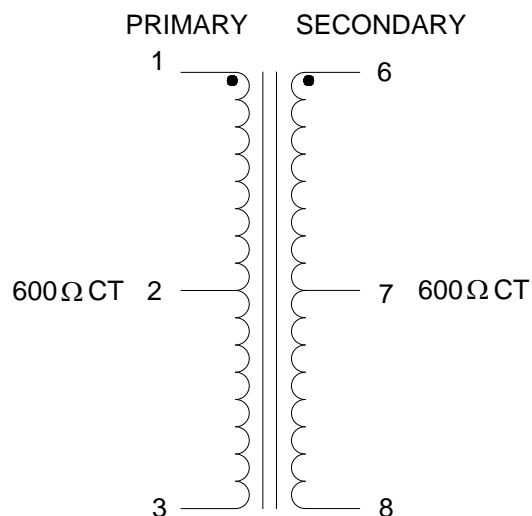


### ELECTRICAL SPECIFICATIONS

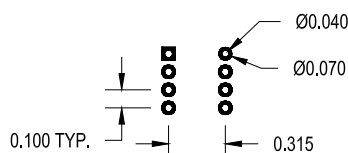
Characteristic	Typical
Input Impedance	600 $\Omega$ CT
Output Impedance	600 $\Omega$ CT
Output Power	0.100 Watts
DCR	
Primary 1-3	44 $\Omega$ (22 $\Omega$ /22 $\Omega$ )
Secondary 6-8	52 $\Omega$ (26 $\Omega$ /26 $\Omega$ )
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	288 mH
Secondary	288 mH
Leakage Inductance	0.40 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	2.86 K $\Omega$
Secondary	2.86 K $\Omega$
Frequency Response	$\pm 0.5$ 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**



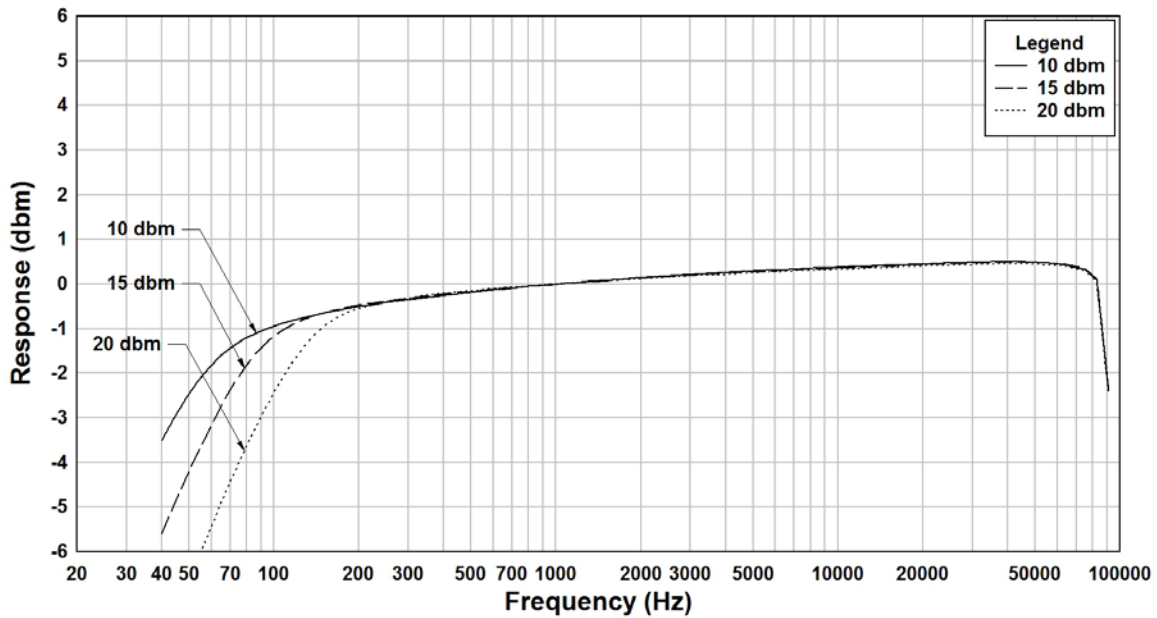
### SCHEMATIC DIAGRAM



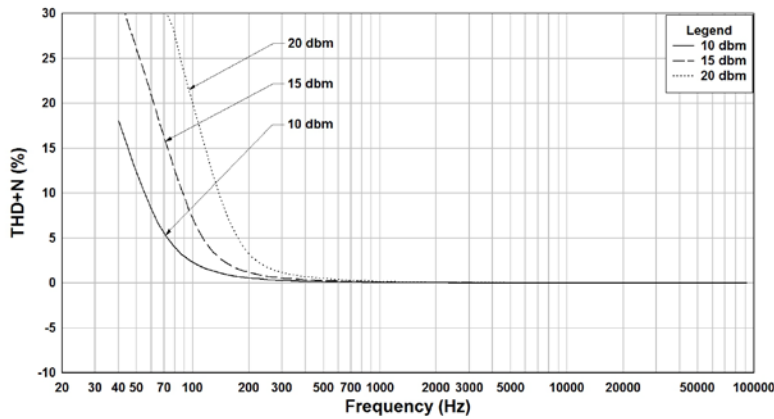
### PCB LAYOUT



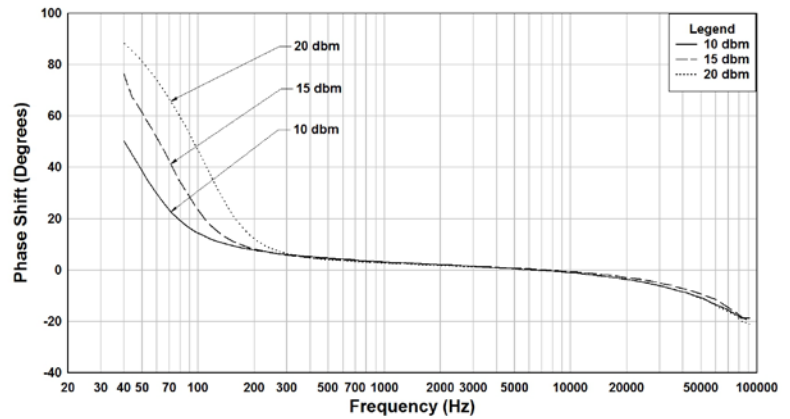
## 101F Frequency Response



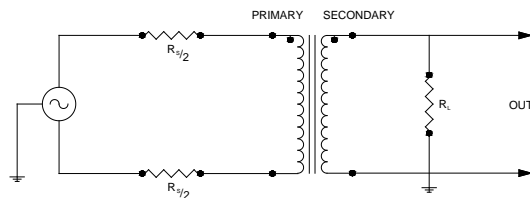
## 101F THD+N



## 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  $-40^{\circ}\text{C}$  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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