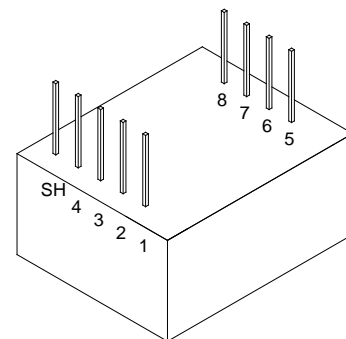


## 560C

P.C. BOARD MOUNT - EPOXY POTTED AUDIO TRANSFORMER

- Rugged black epoxy potted case with 9 pin connections (0.025" square by 0.5" long)
- Higher signal levels possible with reduced low frequency performance
- Electrostatic shield between primary & secondary connected to core and pin "SH"
- Humbucking construction
- Balanced split windings on primary & secondary for circuit versatility
- Primaries and secondaries can be reversed for impedance matching
- Overall dimensions 1.65" x 1.34" x 0.80" high max
- Shipping weight 4 oz



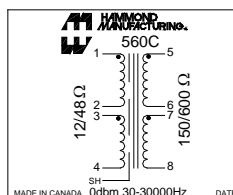
Power level: 0dbm @ 30 Hz. to 30 KHz.

-Freq. range @ +0 dbm is 30 Hz. to 30 KHz. +/- 0.5db typ

-Freq. range @ +10 dbm is 30 Hz. to 30 KHz. +/- 1.0db typ

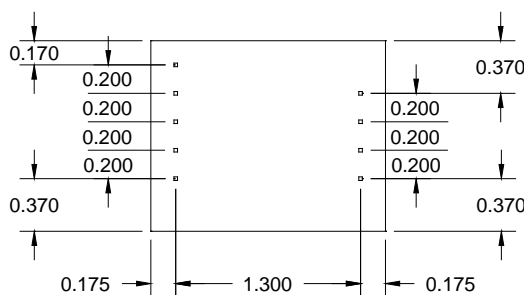
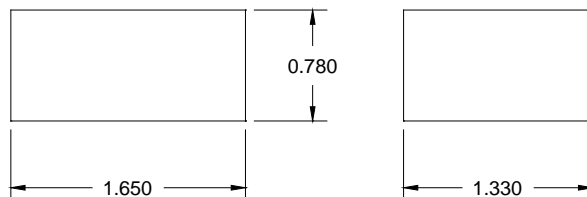
-Freq. range @ +27 dbm is 30 Hz. to 30 KHz. +/- 1.0db typ

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

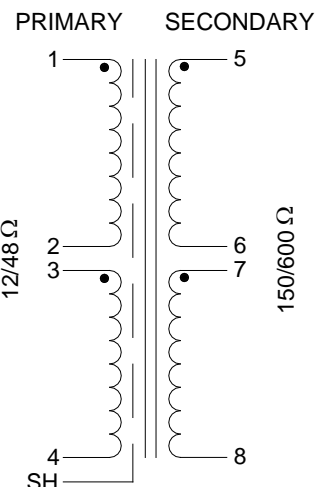


### ELECTRICAL SPECIFICATIONS

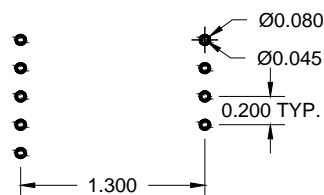
Characteristic	Typical
Input Impedance	12/48 $\Omega$
Output Impedance	150/600 $\Omega$
Output Power	0 dbm
DCR	
Primary 1-4	0.91 $\Omega$
Secondary 5-8	14.00 $\Omega$
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	85.62 mH
Secondary	0.916 H
Leakage Inductance	0.042 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	0.944 K $\Omega$
Secondary	9.826 K $\Omega$
Frequency Response	$\pm 1.0$ db from 30Hz to 30KHz
Turns ratio	1.736:1
Dielectric Strength	500 Vrms
Temperature Range	-40 To 105°C**



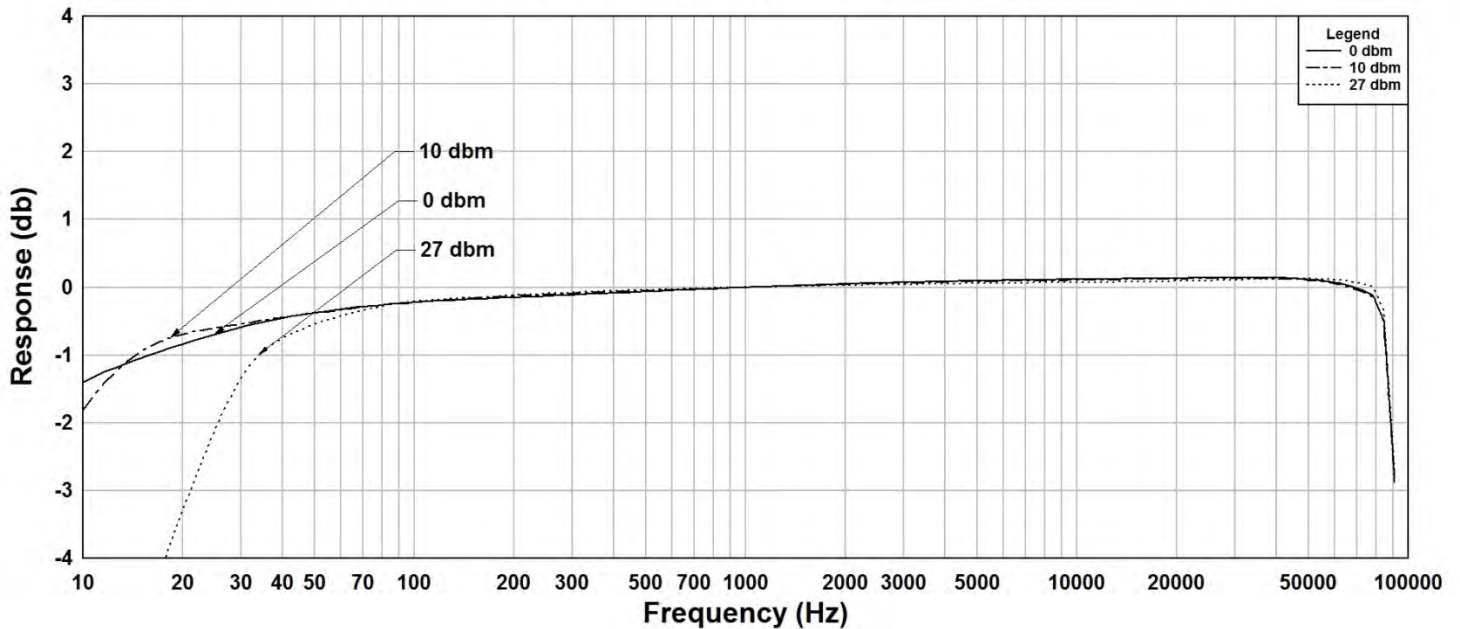
### SCHEMATIC DIAGRAM



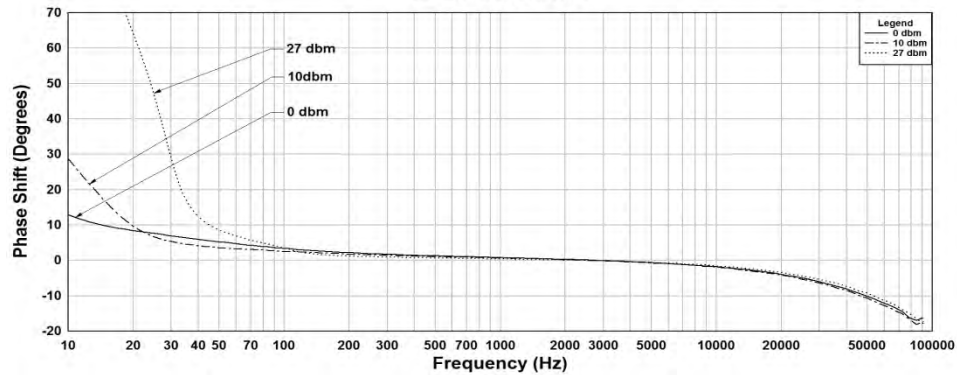
### PCB LAYOUT



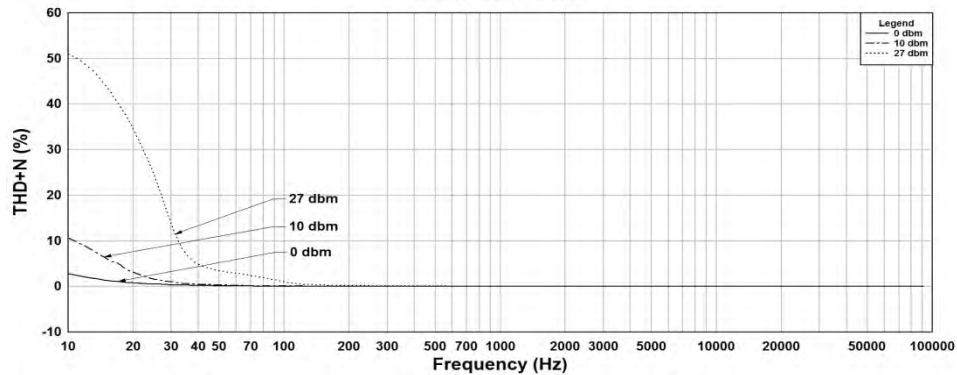
**560C Rs=48, RI=600 Frequency Response**  
Winding Series Connected



**560C Rs=48 RI=600 Phase Shift**  
Winding Series Connected



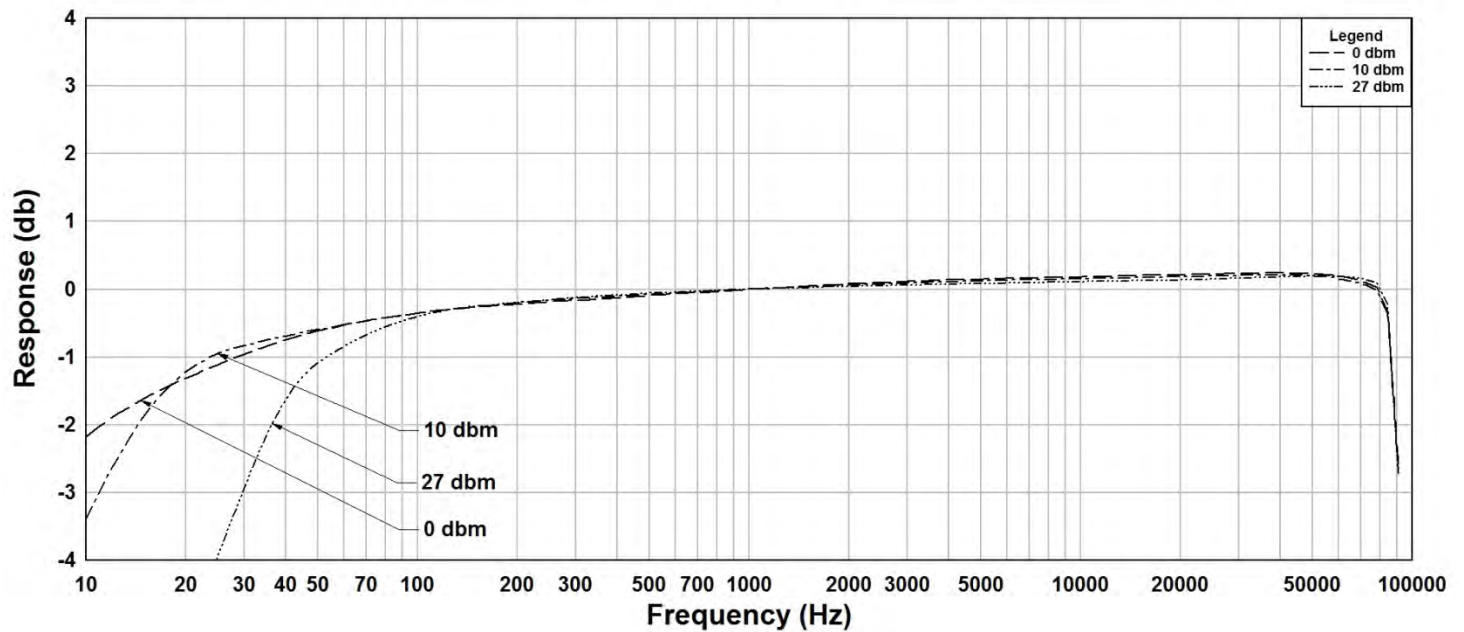
**560C Rs=48 RI=600 THD+N**  
Winding Series Connected



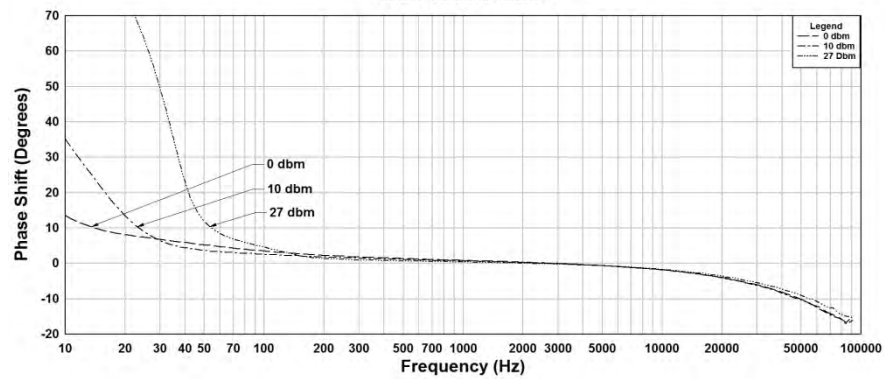
\*\*The epoxy that is used to cast these parts has a workable temperature range of  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$  Under a normal rate of change, this does not include thermal shock. Variations in the transformer materials and environmental conditions may reduce the workable temperature range.

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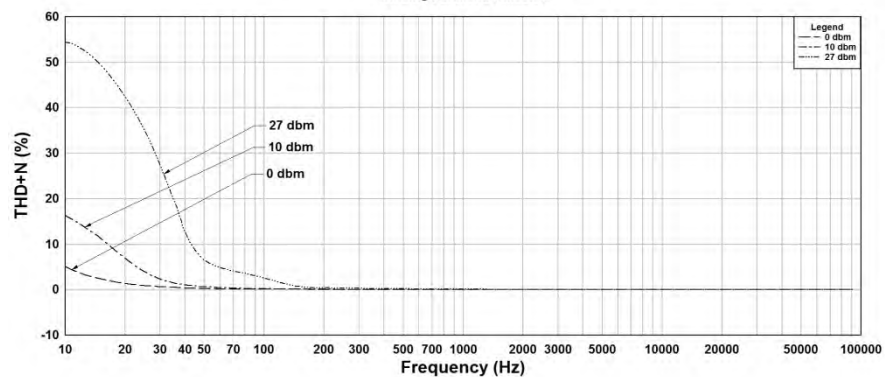
# 560C Rs=12, RI=150 Frequency Response Winding Parallel Connected



## 560C Rs=12 RI=150 Phase Shift Winding Parallel Connected



## 560C Rs=12 RI=150 THD+N Winding Parallel Connected



### TYPICAL TEST CIRCUIT

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

