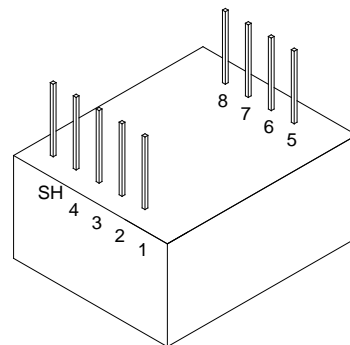




## 560Q

P.C. BOARD MOUNT - EPOXY POTTED AUDIO TRANSFORMER

- Rugged black epoxy potted case with 9 pin connections (0.25" 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 1.64" x 1.33" x 0.85" high max
- Shipping weight 4 oz



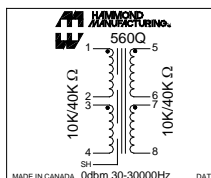
Power level: 0dbm @ 30 Hz. to 30 KHz.

-Freq. range @ +0 dbm is 30 Hz. to 15 KHz. +/- 1.0db max

-Freq. range @ +10 dbm is 30 Hz. to 15 KHz.

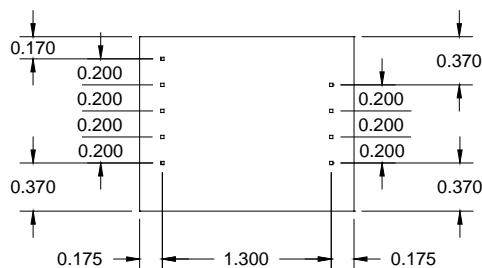
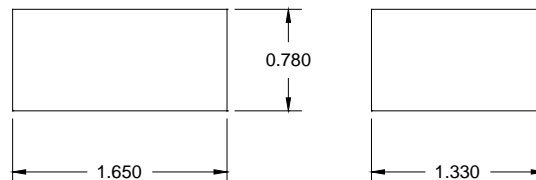
-Freq. range @ +27 dbm is 30 Hz. to 15 KHz.

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

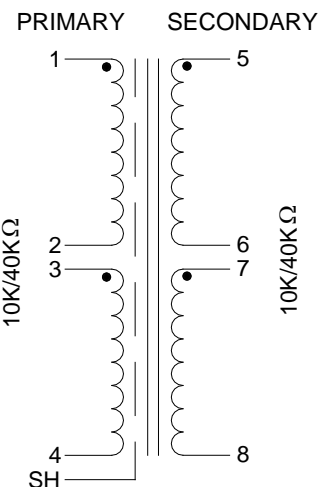


### ELECTRICAL SPECIFICATIONS

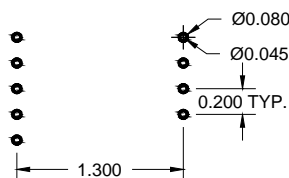
Characteristic	Typical
Input Impedance	10K/40K $\Omega$
Output Impedance	10K/40K $\Omega$
Output Power	0 dbm
DCR	
Primary 1-4	339.0 $\Omega$
Secondary 5-8	291.0 $\Omega$
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	7.30 H
Secondary	7.30 H
Leakage Inductance	1.230 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	246.0 K $\Omega$
Secondary	244.0 K $\Omega$
Frequency Response	$\pm 1.0$ db from 30Hz to 30KHz
Turns ratio	1:1
Dielectric Strength	500 Vrms
Temperature Range	-40 To 105°C**



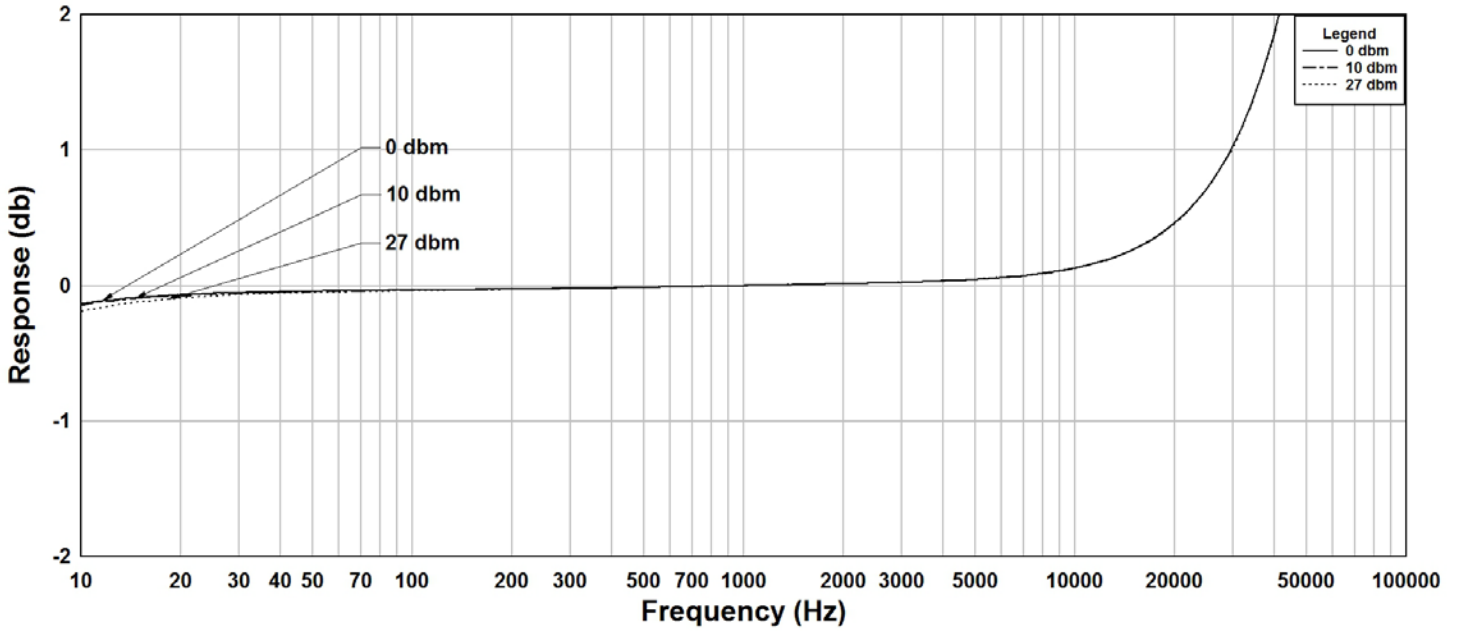
### SCHEMATIC DIAGRAM



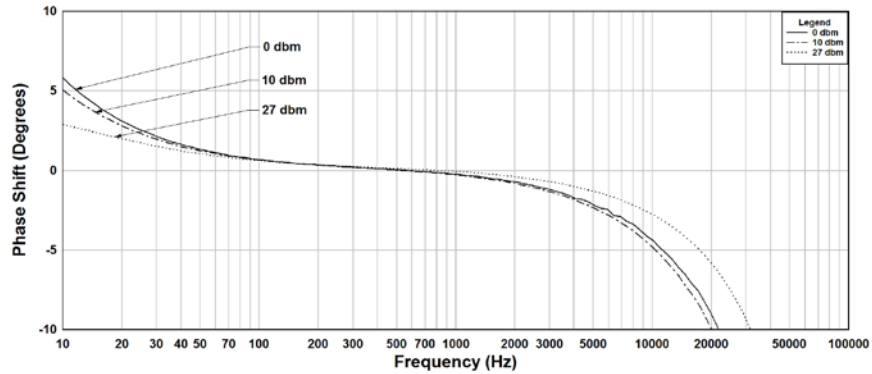
### PCB LAYOUT



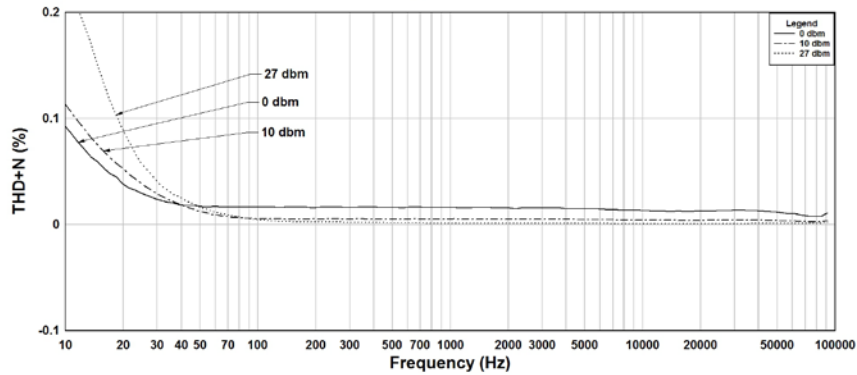
560Q Rs=40K RI=40K Frequency Response  
Winding Series Connected



560Q Rs=40K RI=40K Phase Shift  
Winding Series Connected



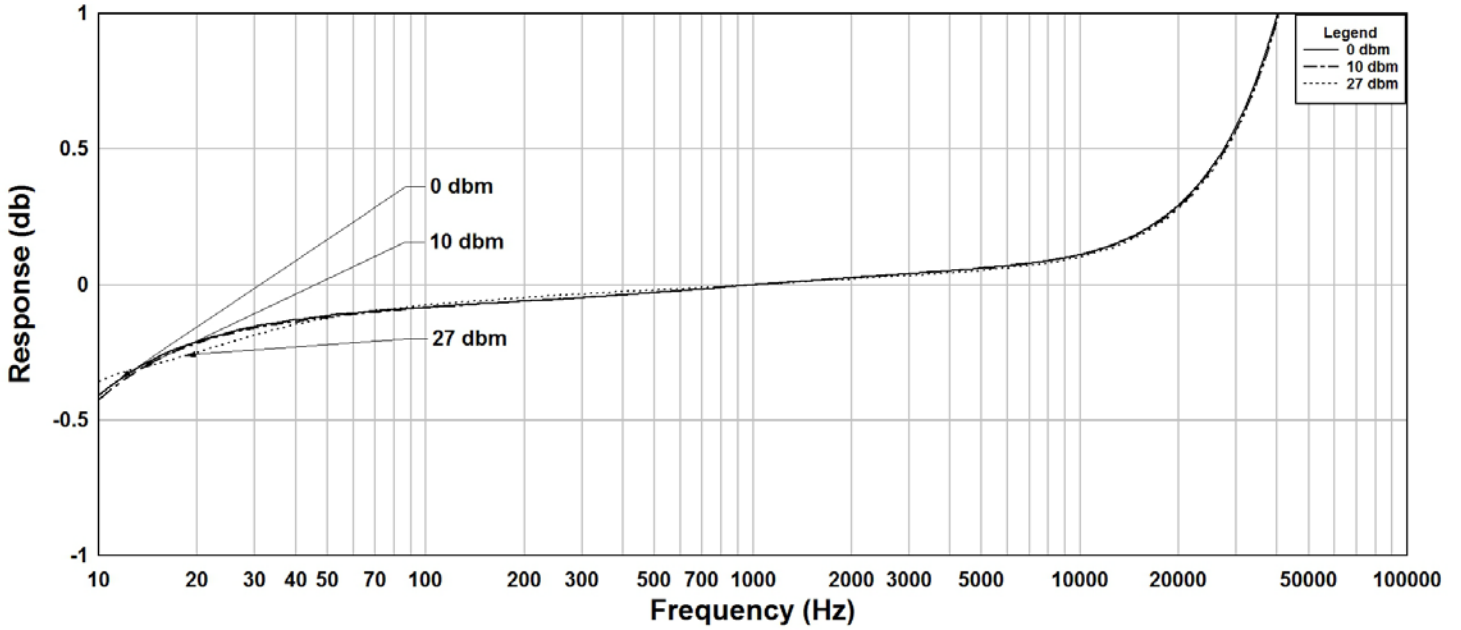
560Q Rs=40K RI=40K THD+N  
Winding Series Connected



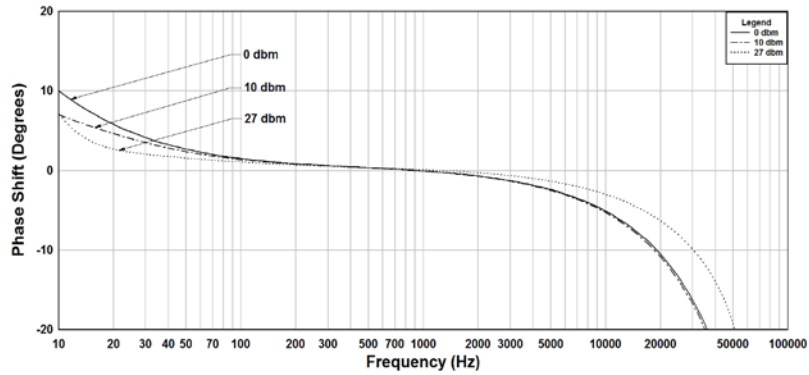
\*\*The epoxy that is used to cast these parts has a workable temperature range of -40°C to +105°C Under a normal rate of change, this does not include thermal shock. Variations in the transformer materials and environmental conditions may reduce the workable temperature range.

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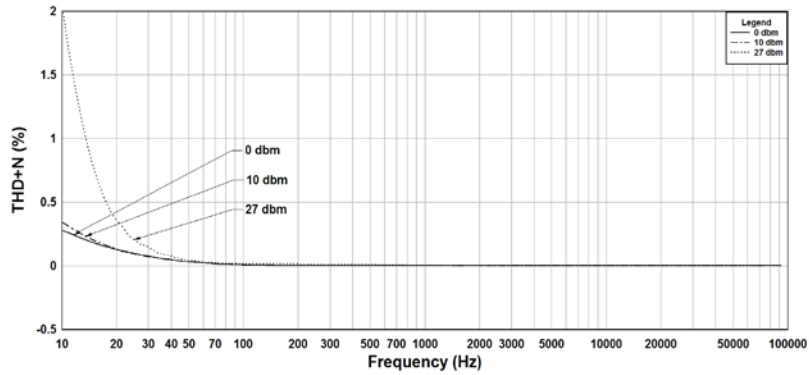
**560Q Rs=10K RI=10K Frequency Response**  
Winding Parallel Connected



**560Q Rs=10K RI=10K Phase Shift**  
Winding Parallel Connected



**560Q Rs=10K RI=10K THD+N**  
Winding Parallel Connected



TYPICAL TEST CIRCUIT

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

