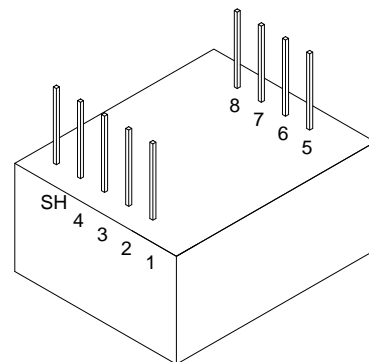




## 560J

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



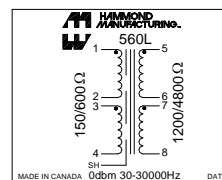
Power level: 0dbm @ 30 Hz. to 30 KHz.

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

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

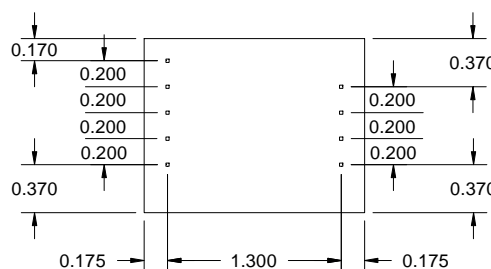
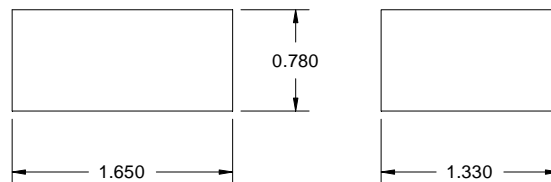
-Freq. range @ +27 dbm is 30 Hz. to 30 KHz.

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

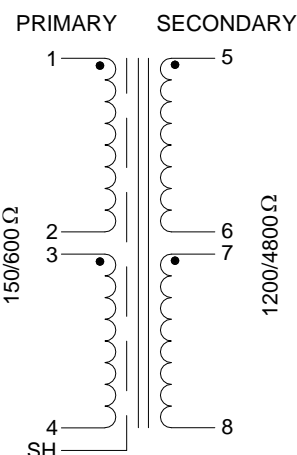


### ELECTRICAL SPECIFICATIONS

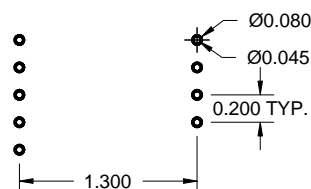
Characteristic	Typical
Input Impedance	150/600 Ω
Output Impedance	1200/4800 Ω
Output Power	0 dbm
DCR	
Primary 1-4	15.60 Ω
Secondary 5-8	74.80 Ω
Inductance	@ 1.0 kHz, 1.0 V OC
Primary	1.232 H
Secondary	9.348 H
Leakage Inductance	0.497 mH
Impedance	@ 1.0 kHz, 1.0 V OC
Primary	12.80 KΩ
Secondary	95.25 KΩ
Frequency Response	±1.0db from 30Hz to 30KHz
Turns ratio	2.827:1
Dielectric Strength	500 Vrms
Temperature Range	-40 To 105°C**



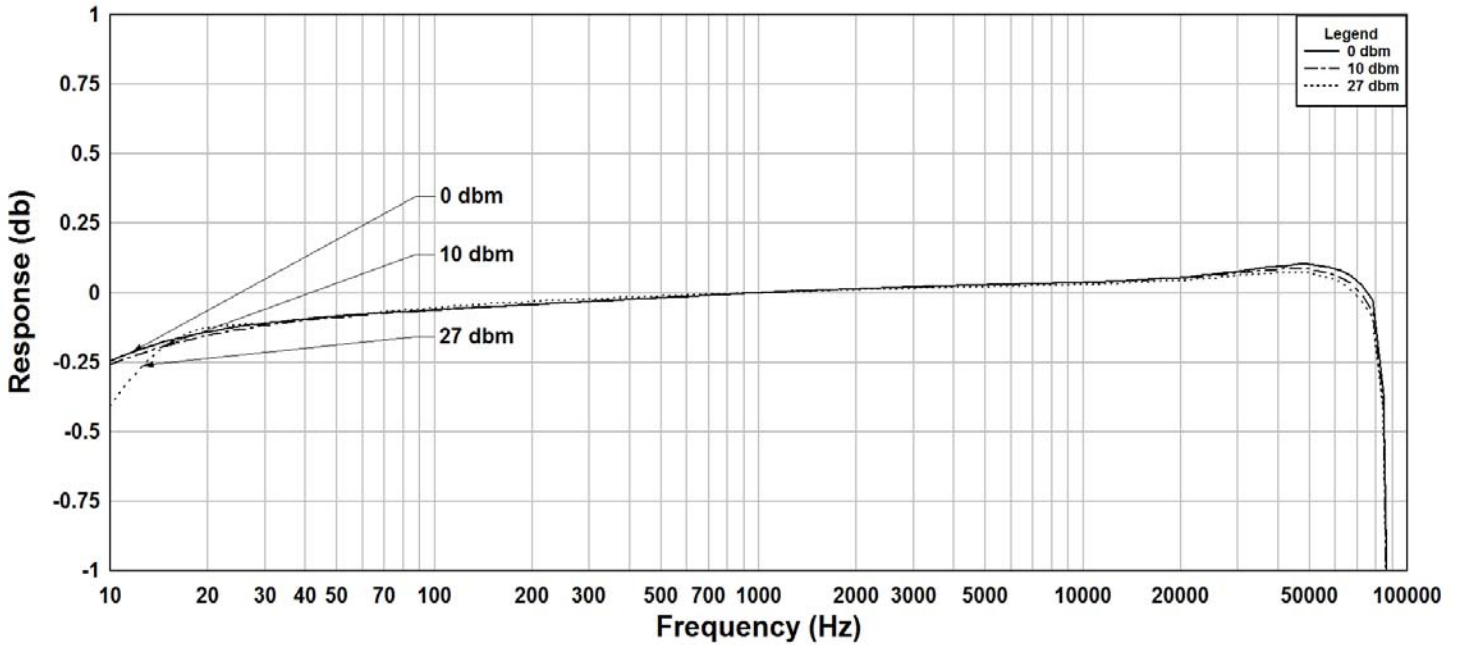
### SCHEMATIC DIAGRAM



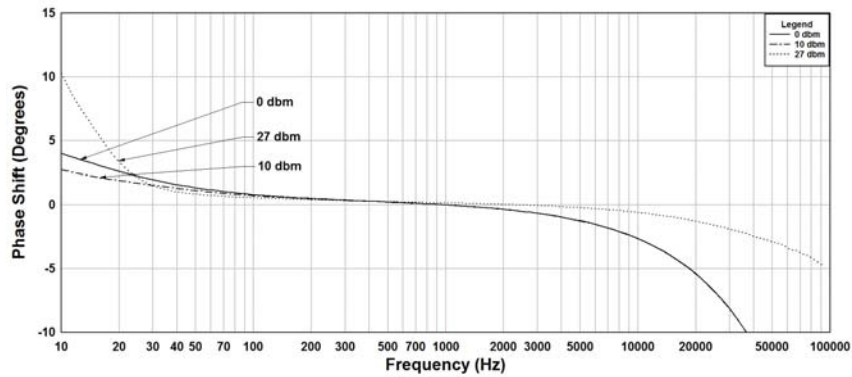
### PCB LAYOUT



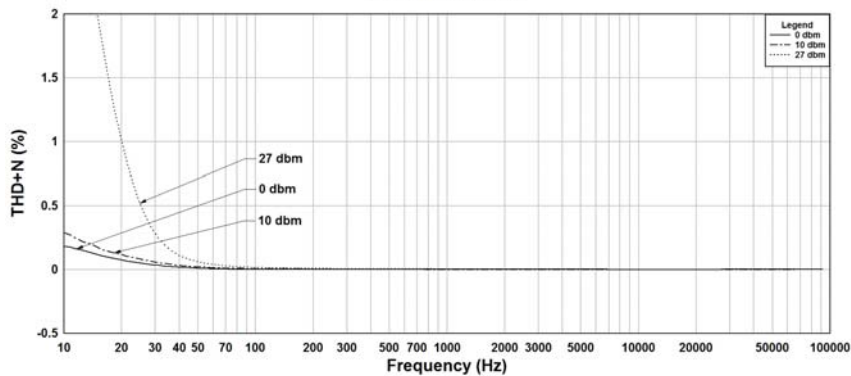
**560J Rs=600 RI=4800 Frequency Response**  
Winding Series Connected



**560J Rs=600 RI=4800 Phase Shift**  
Winding Series Connected



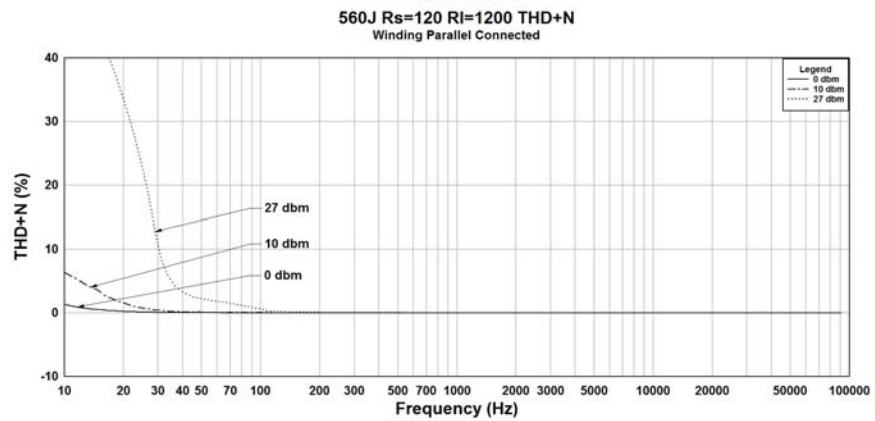
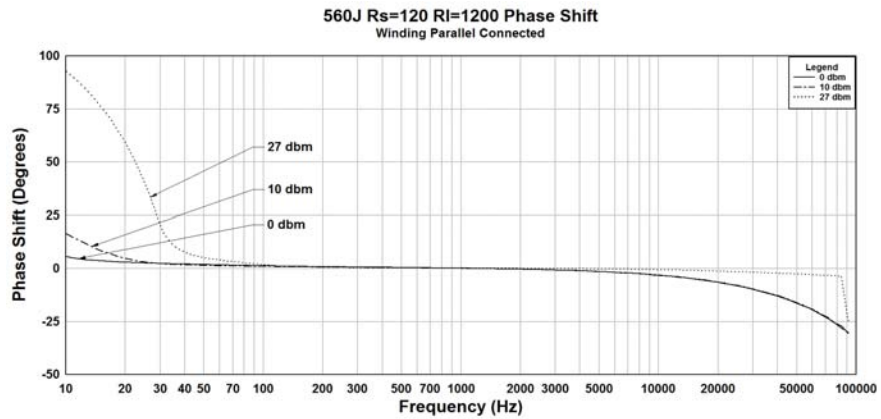
**560J Rs=600 RI=4800 THD+N**  
Winding Series Connected



\*\*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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**560J Rs=120 RI=1200 Phase Shift**  
Winding Parallel Connected



TYPICAL TEST CIRCUIT

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

