



106 Series

MINIATURE EPOXY-POTTED AUDIO TRANSFORMER

106E

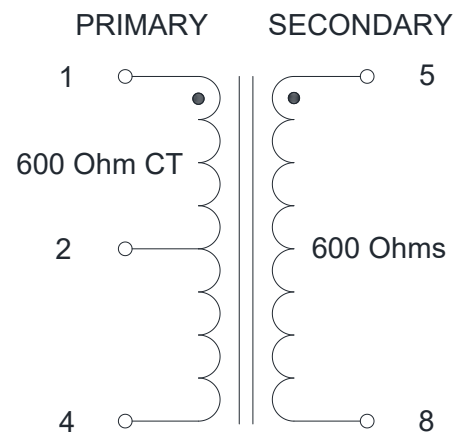
Features:

- Bifilar winding technique used on center tapped units for balanced resistive and capacitive characteristics.
- Rugged black epoxy potted construction produces a completely sealed unit withstanding severe environmental conditions including those of MIL-T-27 (Grade 5, Class S).
- Frequency response: $\pm 1\text{dB}$ 150Hz – 20KHz @ full power
- P.C. board mount - square pin type (0.025" square typical)
- Peak working voltage rating : 200Vp-p
- Maximum operating altitude : 50,000 ft.
- Weight: 1.44 oz.

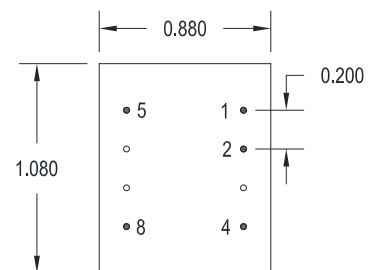
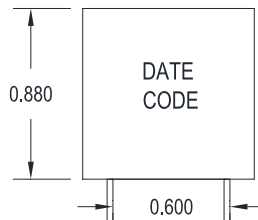
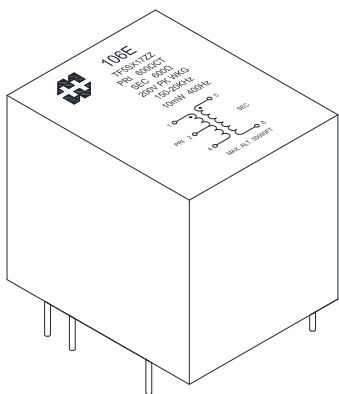
ELECTRICAL SPECIFICATIONS

Characteristics	Typical
PRI Impedance	600 Ohms CT
SEC Impedance	600 Ohms
Output Power	500mW
DCR Pin 1 - 2	31.17 Ohms $\pm 15\%$
DCR Pin 2 - 4	31.34 Ohms $\pm 15\%$
DCR Pin 5 - 8	78.96 Ohms $\pm 15\%$
Dielectric Strength	500V RMS
Temperature class	105°C
PRI Inductance Impedance	
	1V @ 1KHz OC
Pin 1 - 4	698.5mH 4.8K Ohms
PRI Leakage Inductance	
	1V @ 1KHz SC
Pin 1 - 4	4.93mH

SCHEMATIC DIAGRAM



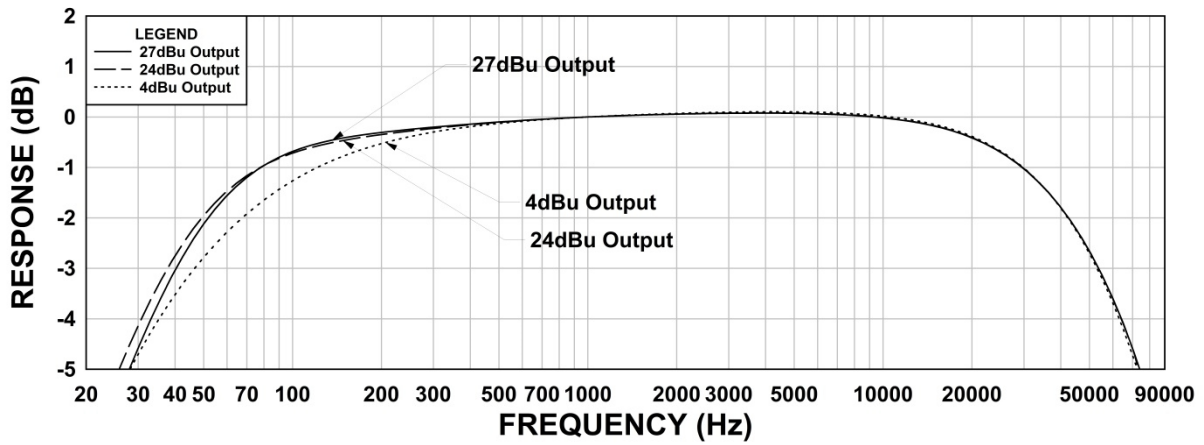
DIMENSIONAL DETAILS:



PERFORMANCE GRAPHS:

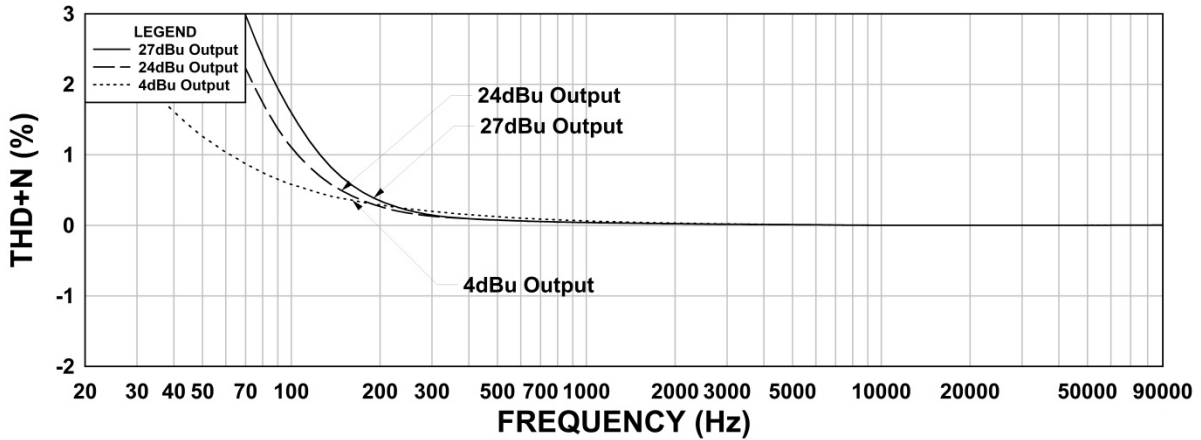
106E Frequency Response

RS = 600 Ohm RL = 600 Ohm @1KHz Reference



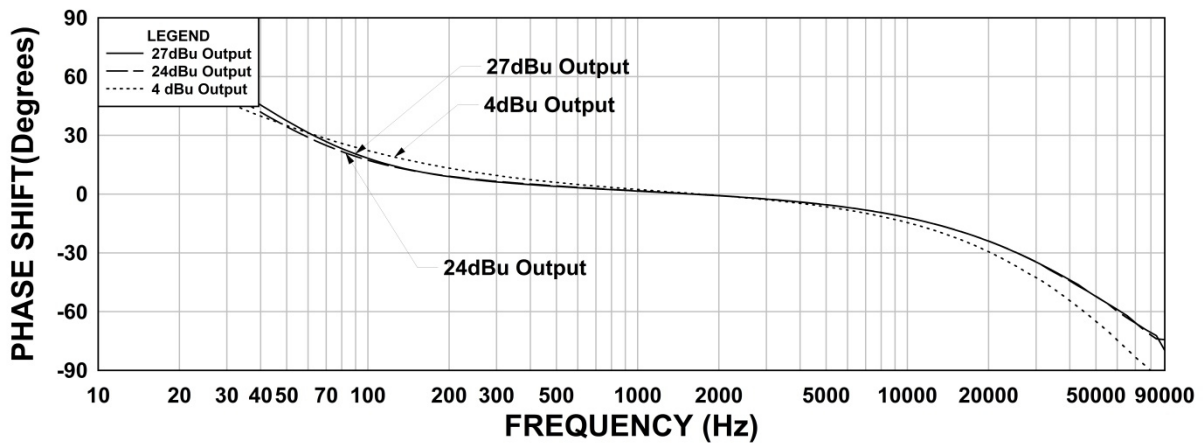
106E THD+N

RS = 600 Ohm RL = 600 Ohm @1KHz Reference



106E Phase Shift

RS = 600 Ohm RL = 600 Ohm @1KHz Reference



MEASUREMENT INSTRUMENTS

- dScope Series III Audio Analyzer
- Wayne Kerr 3255B with a 3265B Inductance Analyzer
- HP 4192a LF Impedance Analyzer
- Keithley 2010 DVM

**The results are typical and are subject to normal manufacturing and electrical tolerances.

TEST CONDITIONS

