


**106 Series**
**MINIATURE EPOXY-POTTED AUDIO TRANSFORMER**

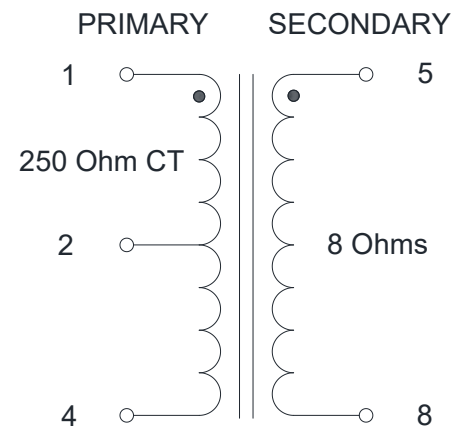
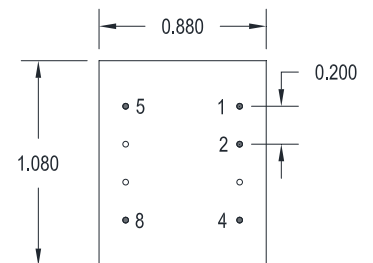
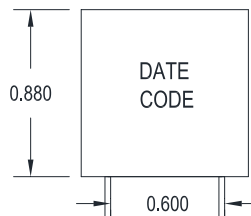
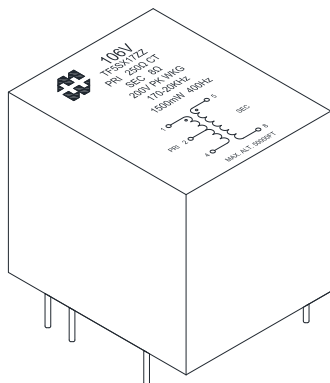
# 106V

**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:  $\pm 1.0\text{dB}$  170Hz – 20KHz @ 20dBu
- 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**

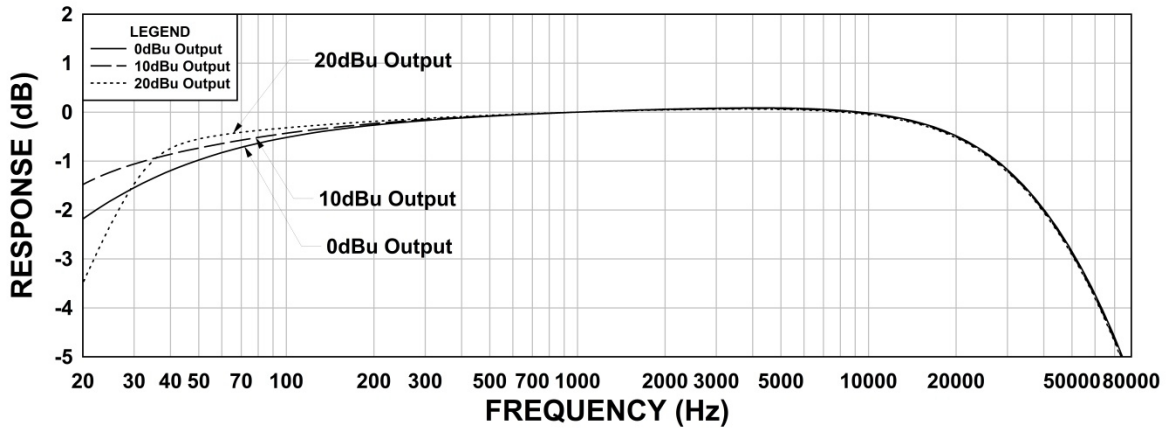
Characteristics	Typical
PRI Impedance	250 Ohms CT
SEC Impedance	8 Ohms
Output Power	1500mW
DCR Pin 1 - 2	5.266 Ohms $\pm 15\%$
DCR Pin 2 - 4	5.350 Ohms $\pm 15\%$
DCR Pin 5 - 8	0.660 Ohms $\pm 15\%$
Dielectric Strength	500V RMS
Temperature class	105°C
<b>PRI Inductance   Impedance</b>	
	1V @ 1KHz OC
Pin 1 - 4	331.5mH   2.925K Ohms
<b>PRI Leakage Inductance</b>	
	1V @ 1KHz SC
Pin 1 - 4	1.815mH

**SCHEMATIC DIAGRAM**

**DIMENSIONAL DETAILS:**


**PERFORMANCE GRAPHS:**

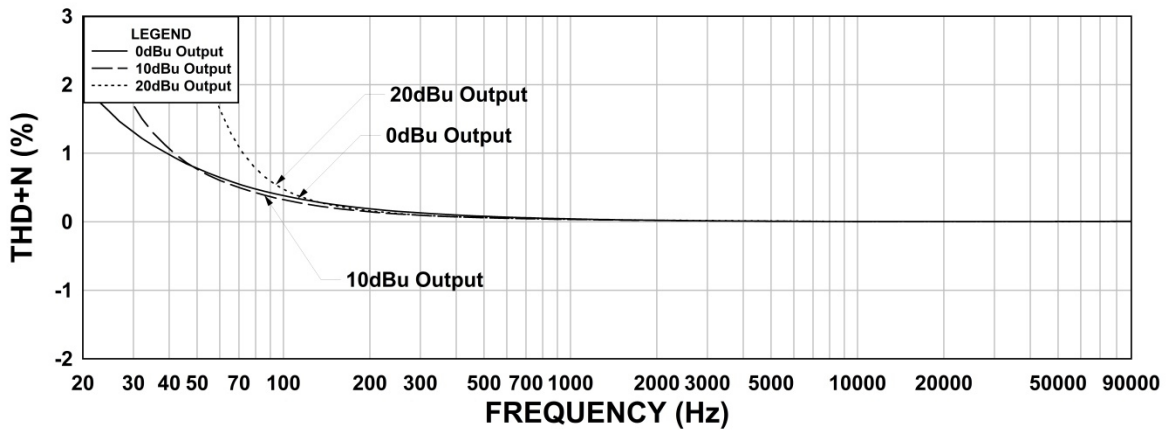
**106V Frequency Response**

RS = 250 Ohm RL = 8 Ohm @ 1KHz Reference



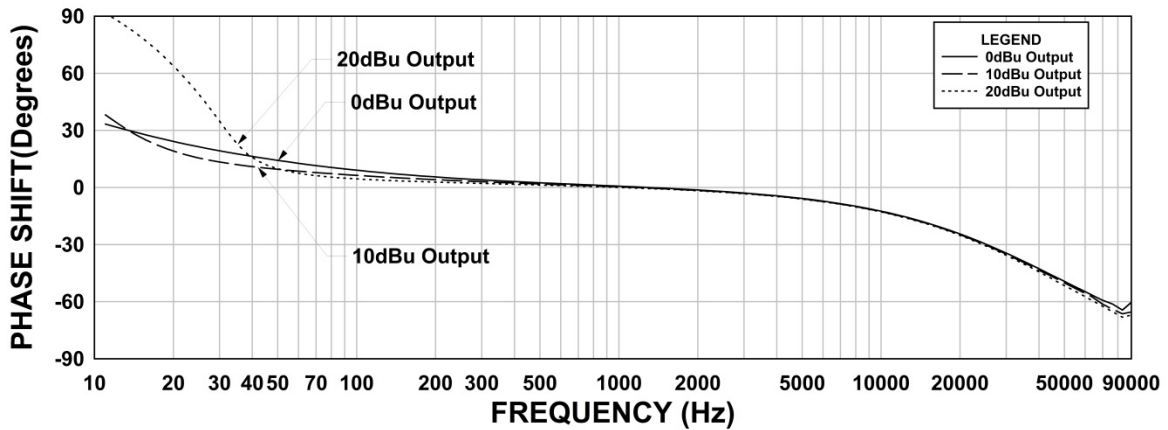
**106V THD+N**

RS = 250 Ohm RL = 8 Ohm @ 1KHz Reference



**106V Phase Shift**

RS = 250 Ohm RL = 8 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**

