



106 Series

MINIATURE EPOXY-POTTED AUDIO TRANSFORMER

106Q

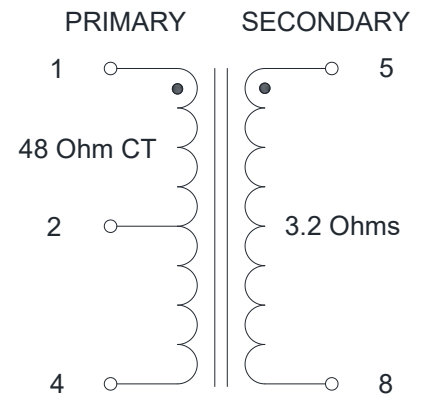
Features:

- 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.

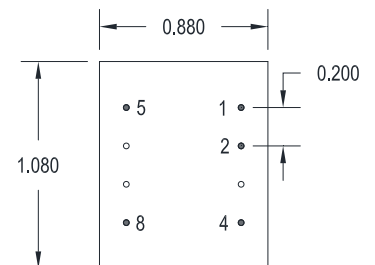
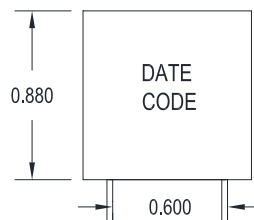
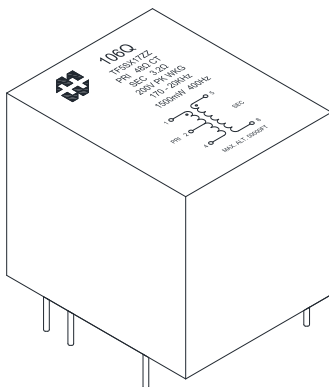
ELECTRICAL SPECIFICATIONS

Characteristics	Typical
PRI Impedance	48 Ohms CT
SEC Impedance	3.2 Ohms
Output Power	1500mW
DCR Pin 1 - 2	1.162 Ohms $\pm 15\%$
DCR Pin 2 - 4	1.142 Ohms $\pm 15\%$
DCR Pin 5 - 8	0.260 Ohms $\pm 15\%$
Dielectric Strength	500V RMS
Temperature class	105°C
PRI Inductance Impedance	
Pin 1 - 4	1V @ 1KHz OC 63.23mH 591.5 Ohms
PRI Leakage Inductance	
Pin 1 - 4	1V @ 1KHz SC 338uH

SCHEMATIC DIAGRAM



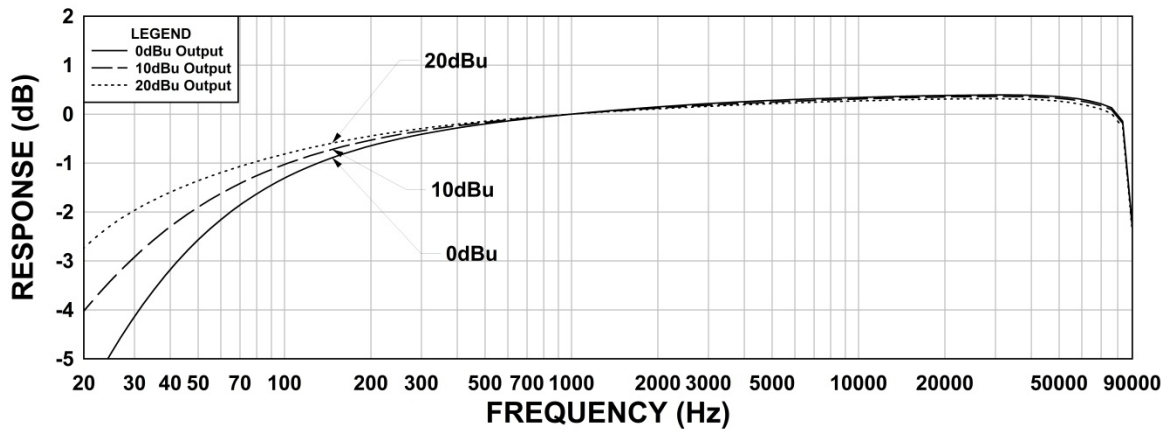
DIMENSIONAL DETAILS:



PERFORMANCE GRAPHS:

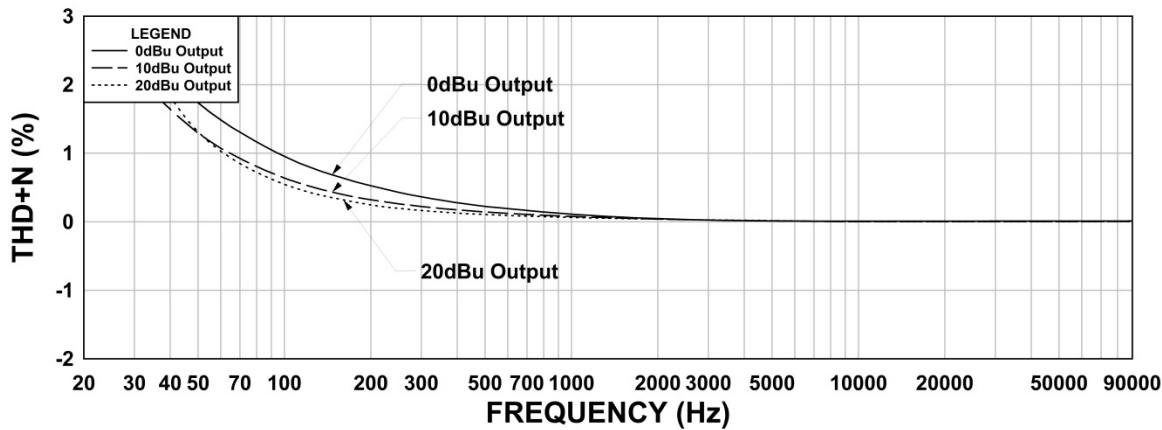
106Q Frequency Response

RS = 48 Ohm RL = 3.2 Ohm @ 1KHz Reference



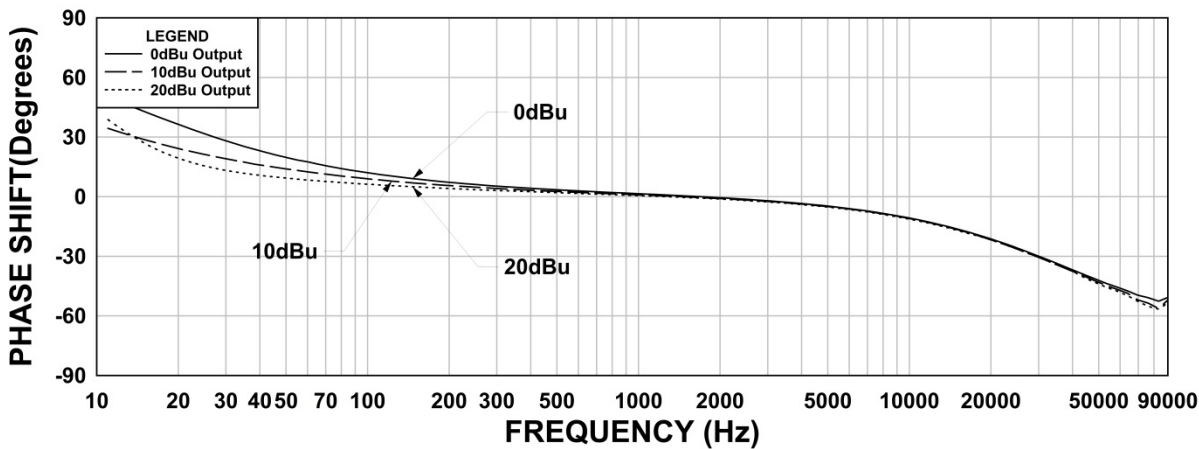
106Q THD+N

RS = 48 Ohm RL = 3.2 Ohm @ 1KHz Reference



106Q Phase Shift

RS = 48 Ohm RL = 3.2 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

