HAMMOND MANUFACTURING T.M.

Hammond Mfg. Co. Ltd., Electronics Division

www.hammondmfg.com

197 Series High Frequency Reactors

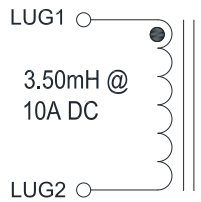
197E10

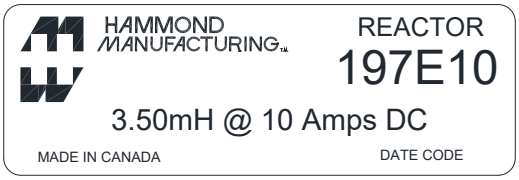
Features:

- High permeability core ideal for applications <50Khz
- High self-resonant frequency values
- Rugged construction with aluminum base and stainless steel band
- Open-style terminal for maximum versatility
- Weight: 6.0 lbs

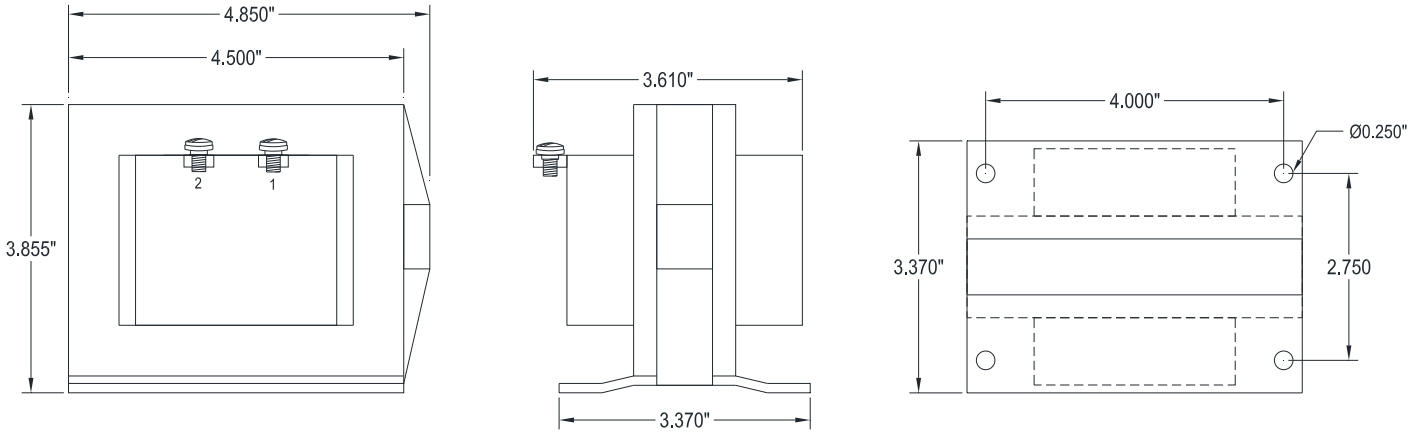
ELECTRICAL SPECIFICATIONS	
Characteristic	**Typical**
Inductance with bias	3.50mH ±15% @ 10ADC
Operating Frequency	60Hz – 10KHz
Self-Resonant Frequency	129.55 KHz
Impedance @ SRF	44.41K Ohms
Ripple Current	20% peak-to-peak
DCR	96mΩ ±15% @20°C
Dielectric Strength	2500V RMS
Temperature Range	-40 To 105°C
Core material	Carbonyl Iron Powder

SCHEMATIC

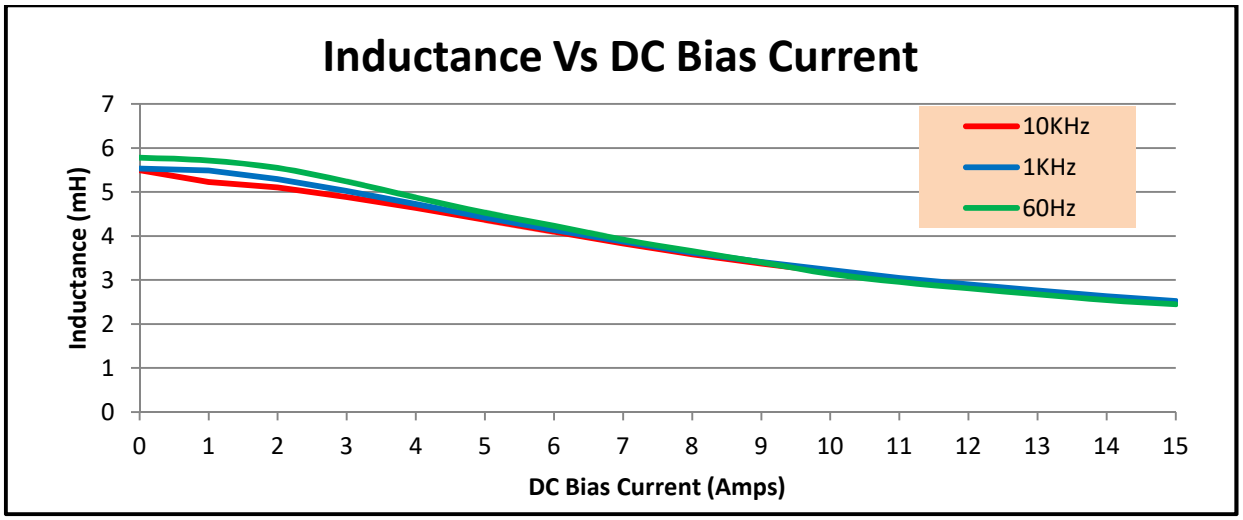


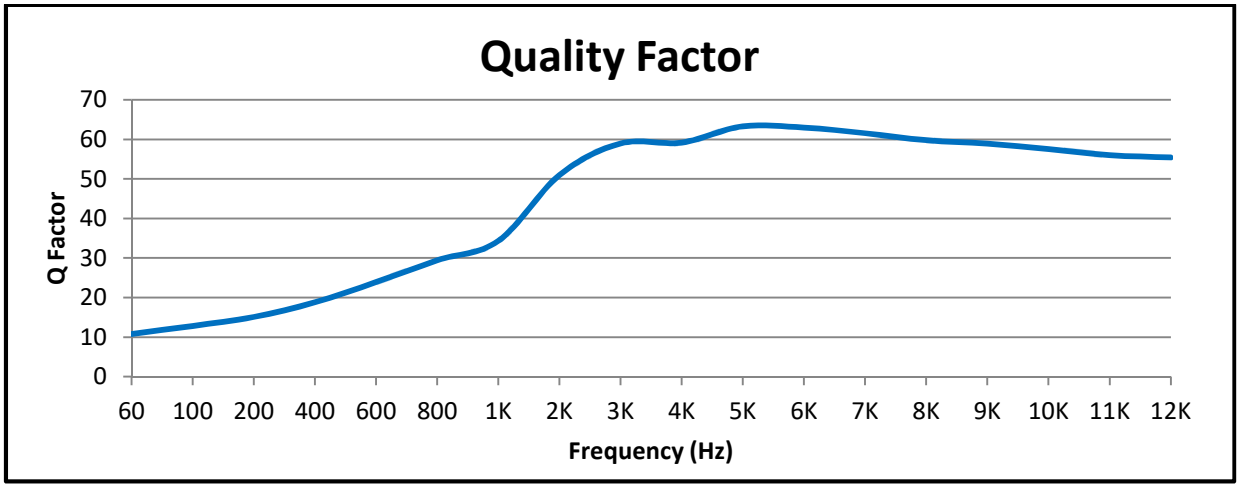


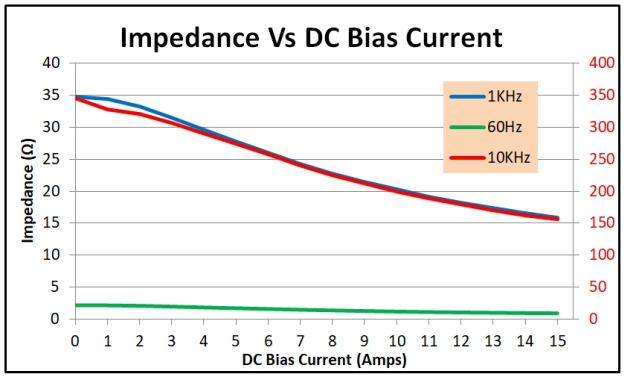
DIMENSIONAL DETAILS:

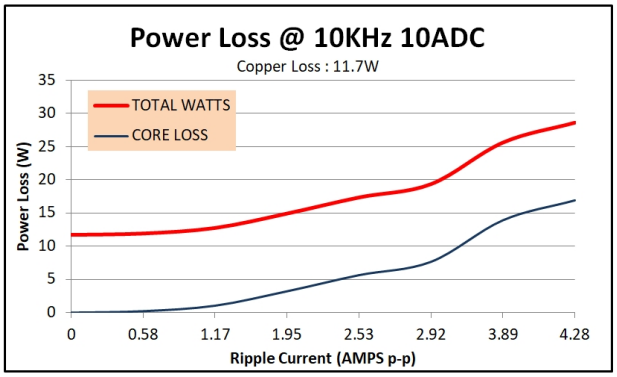


PERFORMANCE GRAPHS:









MEASUREMENT INSTRUMENTS	TEST & DIMENSIONAL CONDITIONS
▪ Voltech DC1000A Precision DC Bias Current Source ▪ Wayne Kerr 3255B with a 3265B Inductance Analyzer ▪ Agilent E4980A Precision LCR Meter ▪ HP 4192A LF Impedance Analyzer ▪ Keithley 2010 DVM	**1.** Performance graphs @1.0 volt AC drive. **2.** Power loss computation from core manufacturer's data. **3.** The results are typical and are subject to normal manufacturing and electrical tolerances. **4.** Dimensional tolerance ±0.063".