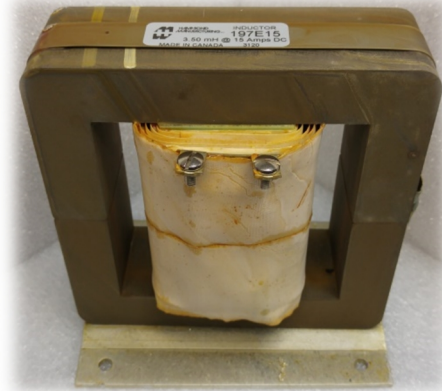


197 Series High Frequency Reactors

197E15

Features:

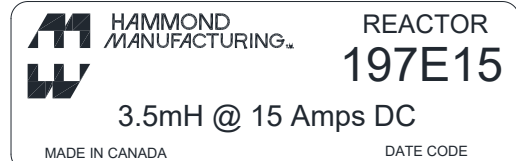
- High permeability core ideal for applications <50Khz
- High self-resonant frequency values
- Rugged construction with aluminum base and stainless steel band
- Open-style terminal for maximum versatility
- Weight: 16.0 lbs.



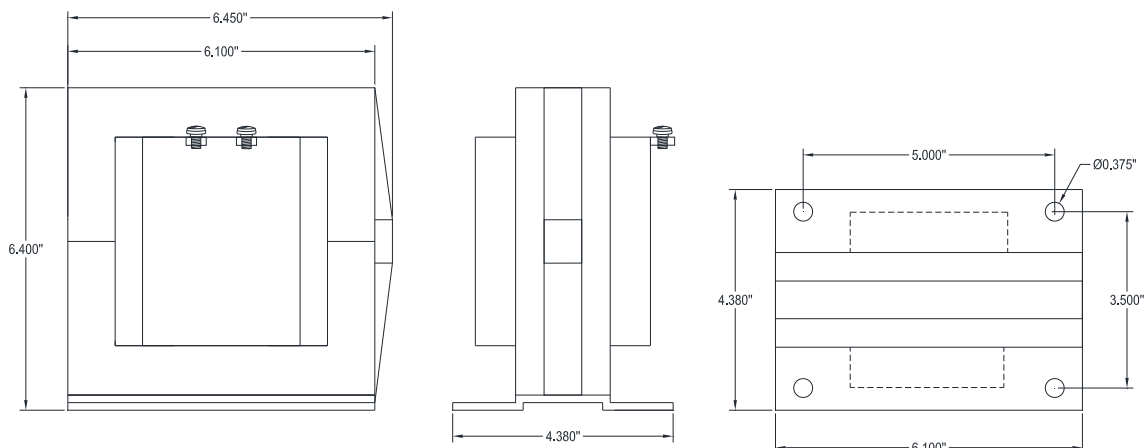
ELECTRICAL SPECIFICATIONS

Characteristic	Typical
Inductance with bias	3.5mH $\pm 15\%$ @ 15ADC
Operating Frequency	60Hz – 10KHz
Self-Resonant Frequency	152.9 KHz
Impedance @ SRF	36.15K Ohms
Ripple Current	20% peak-to-peak
DCR	80m Ω $\pm 15\%$ @20°C
Dielectric Strength	2500V RMS
Temperature Range	-40 To 105°C
Core material	Carbonyl Iron Powder

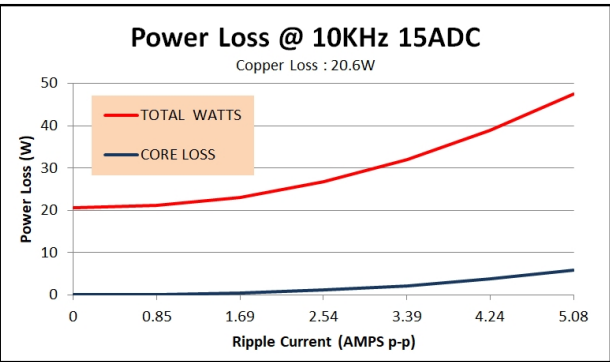
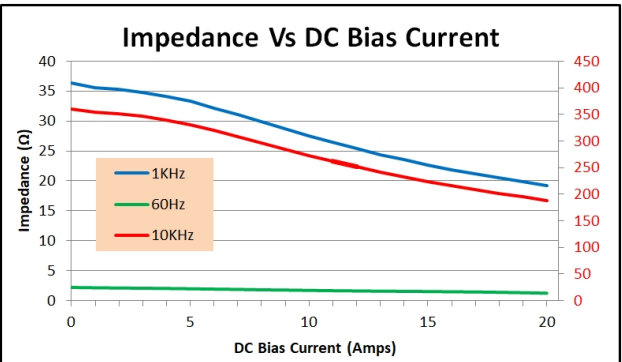
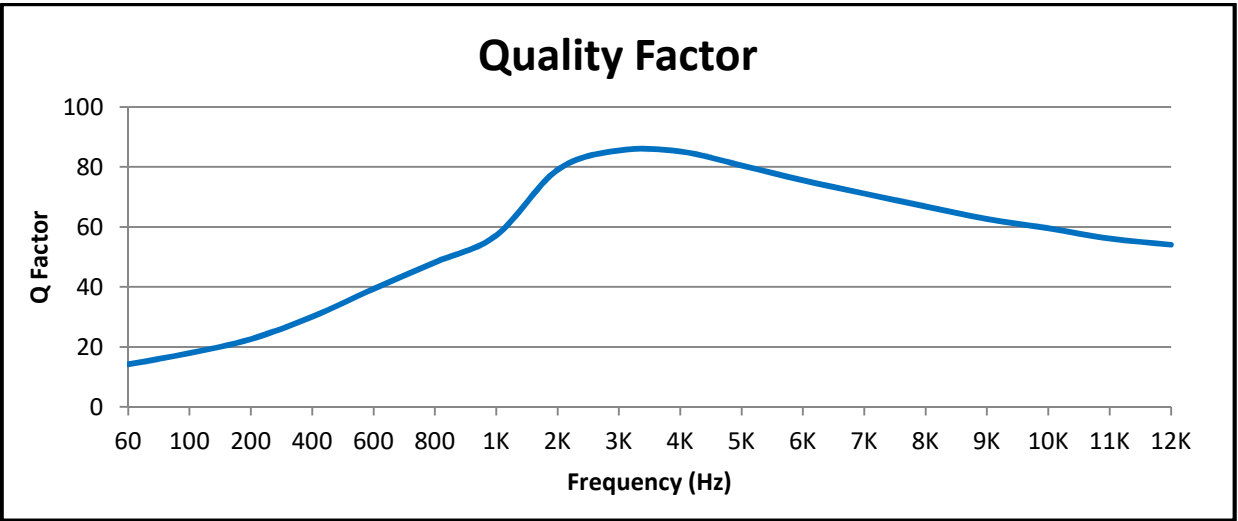
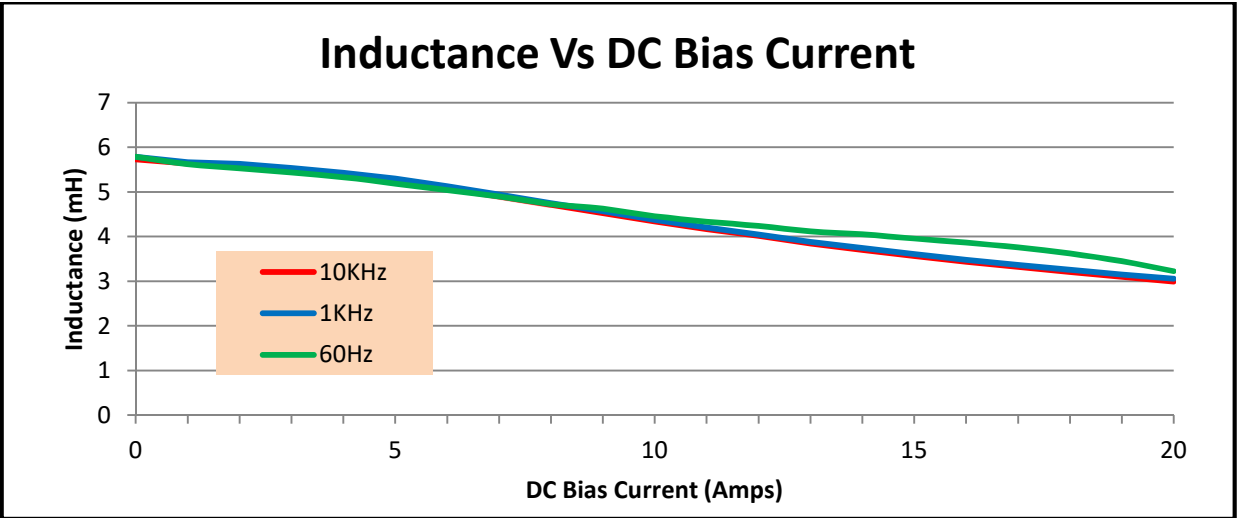
SCHEMATIC



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	- Performance graphs @1.0 volt AC drive. - Power loss computation from core manufacturer's data. - The results are typical and are subject to normal manufacturing and electrical tolerances. - Dimensional tolerance $\pm 0.063"$.