



197 Series High Frequency Reactors

197C15

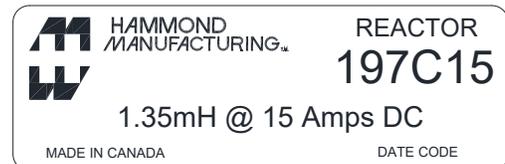
Features:

- 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.

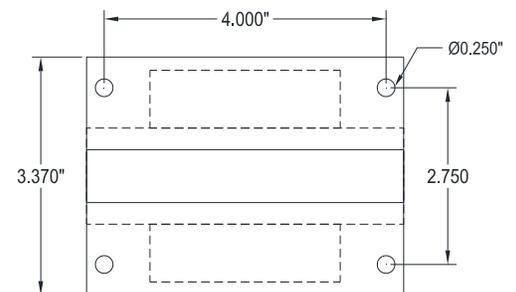
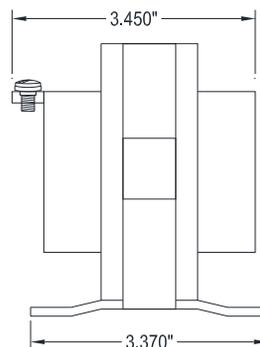
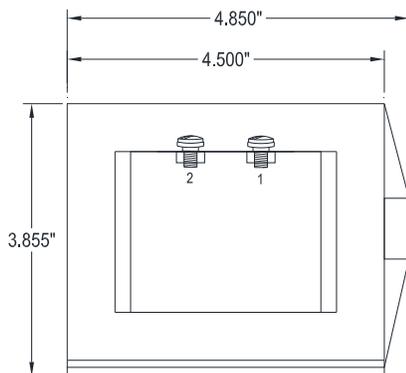


ELECTRICAL SPECIFICATIONS

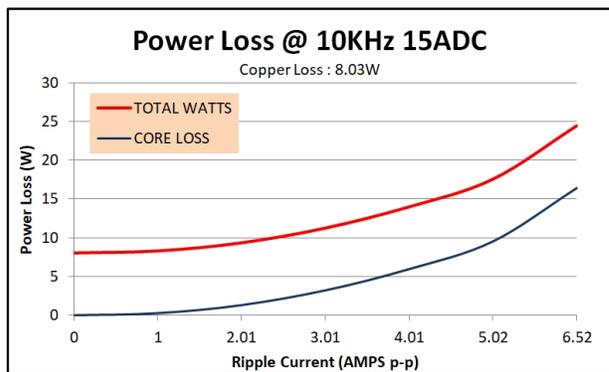
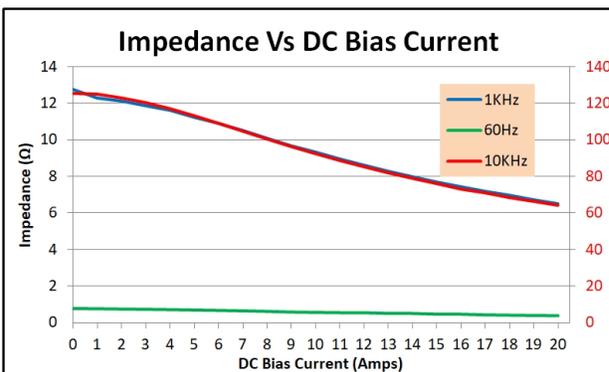
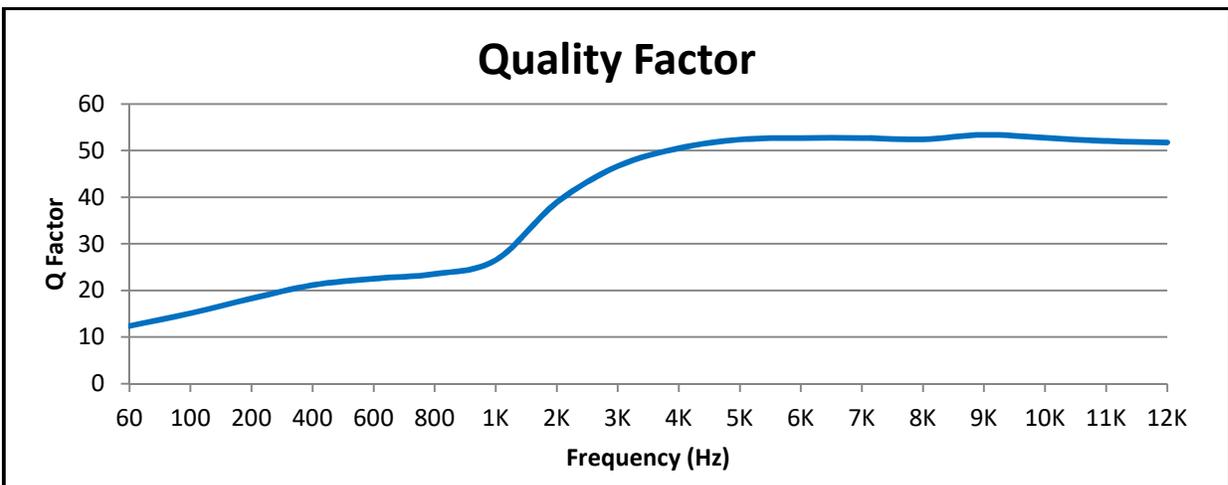
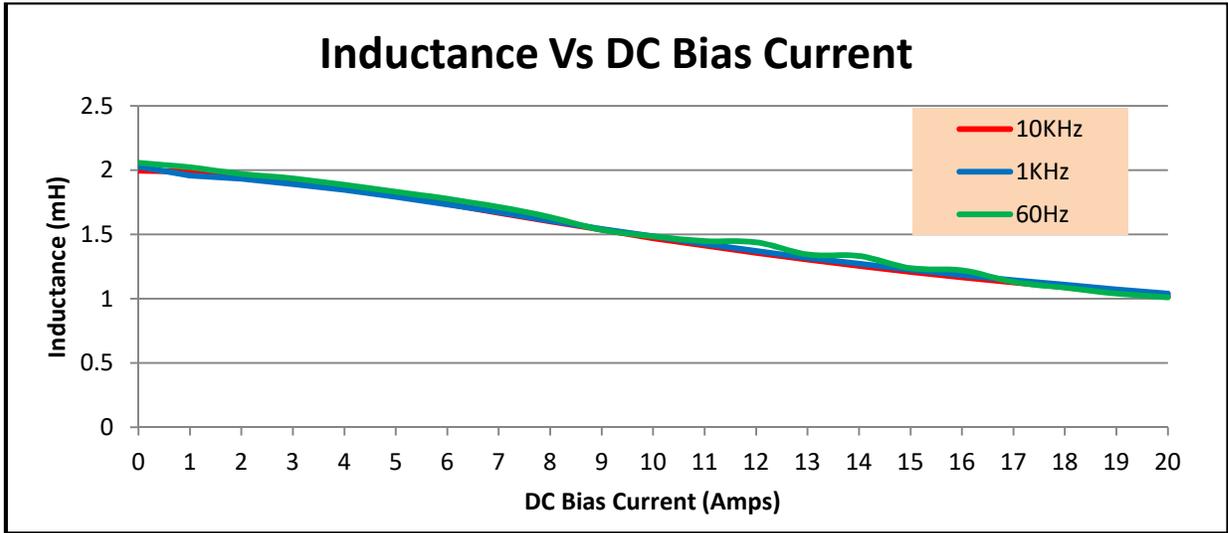
Characteristic	Typical
Inductance with bias	1.35mH \pm 15% @ 15ADC
Operating Frequency	60Hz – 10KHz
Self-Resonant Frequency	289.05 KHz
Impedance @ SRF	19.84K Ohms
Ripple Current	20% peak-to-peak
DCR	29m Ω \pm 15% @20°C
Dielectric Strength	2500V RMS
Temperature Range	-40 To 105°C
Core material	Carbonyl Iron Powder

SCHEMATIC


DIMENSIONAL DETAILS:



PERFORMANCE GRAPHS:



MEASUREMENT INSTRUMENTS	TEST & DIMENSIONAL CONDITIONS
<ul style="list-style-type: none"> ▪ 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 	<ol style="list-style-type: none"> 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".