



197 Series High Frequency Reactors

197H10

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 | 7.5mH ±15% @ 10ADC |
| Operating Frequency | 60Hz – 10KHz |
| Self-Resonant Frequency | 123.3 KHz |
| Impedance @ SRF | 73.38K Ohms |
| Ripple Current | 20% peak-to-peak |
| DCR | 143mΩ ±15% @20°C |
| Dielectric Strength | 2500V RMS |
| Temperature Range | -40 To 105°C |
| Core material | Carbonyl Iron Powder |

SCHEMATIC


 HAMMOND
MANUFACTURING™

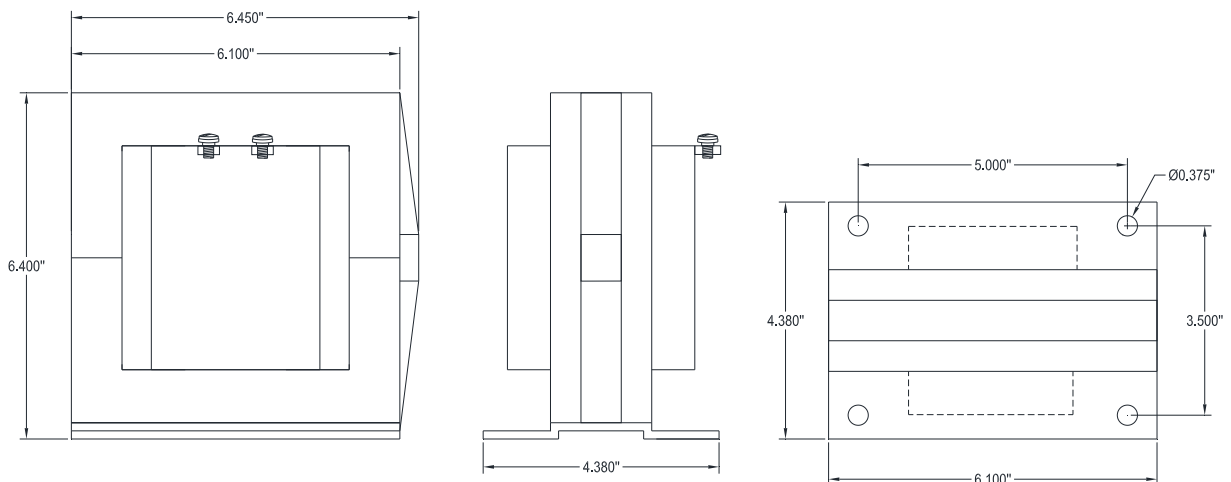
**REACTOR
197H10**

7.5mH @ 10 Amps DC

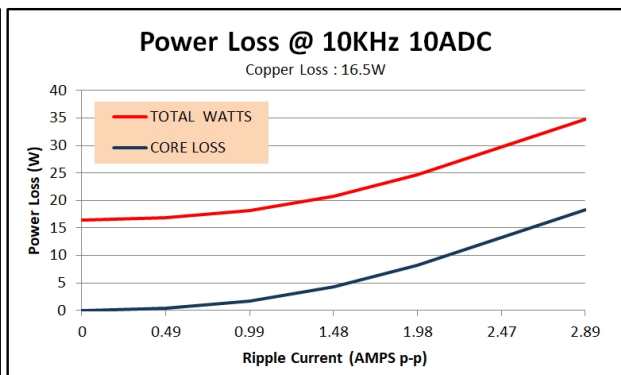
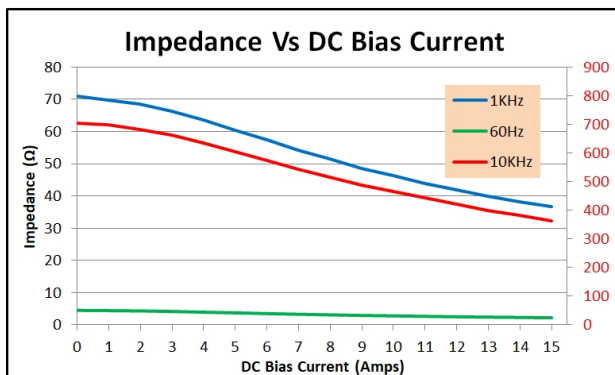
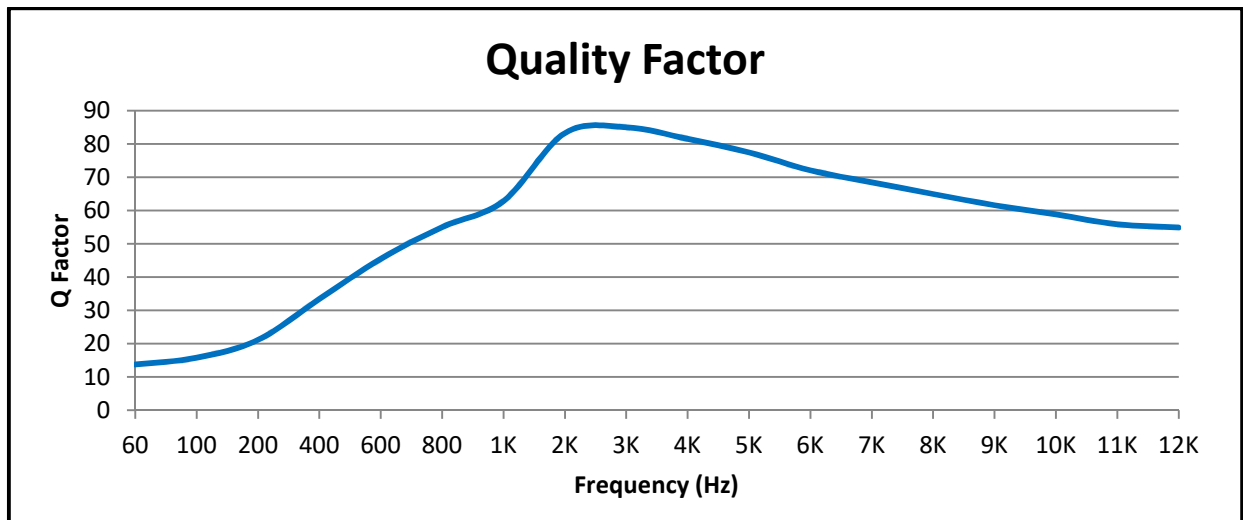
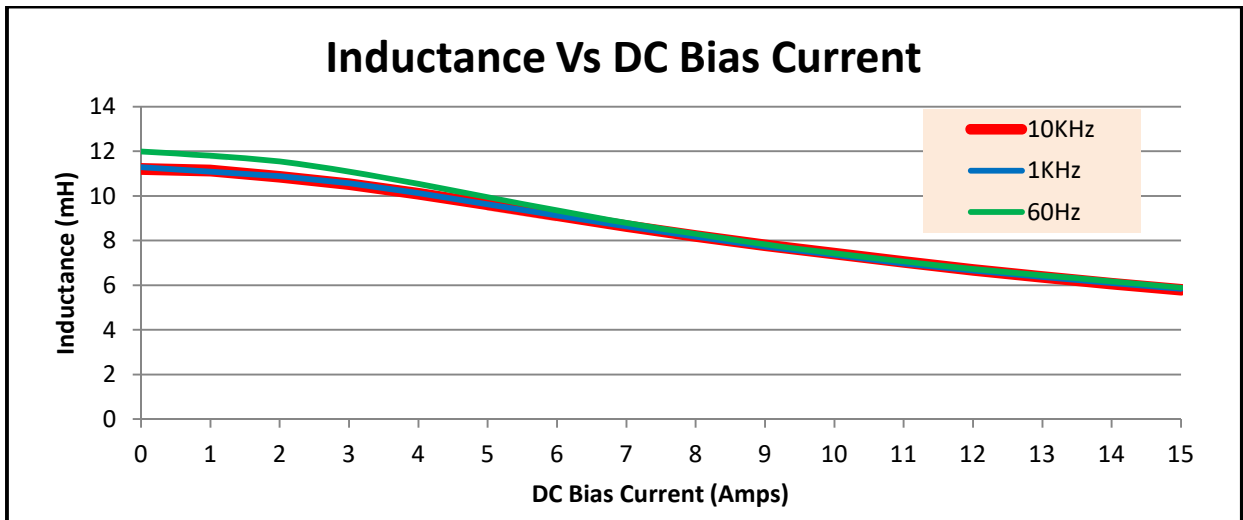
MADE IN CANADA

DATE CODE

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 @2.0 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". |