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197 Series High Frequency Reactors

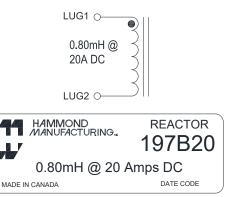
197B20

Features:

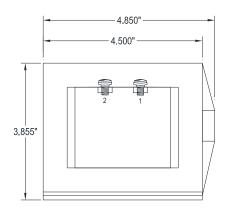
- High permeability core ideal for applications <50Khz
- High self-resonant frequency values
- Rugged construction with aluminum base and stainless steel band
- Open-style terminal for maximum versatility
- Weight: 6.0 lbs.

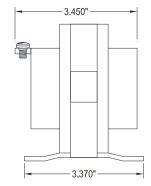
| ELECTRICAL SPECIFICATIONS | | |
|---------------------------|----------------------|--|
| Characteristic | Typical | |
| Inductance with bias | 0.80mH ±15% @ 20ADC | |
| Operating Frequency | 60Hz – 10KHz | |
| Self-Resonant Frequency | 333.0 Khz | |
| Impedance @ SRF | 12.37K Ohms | |
| Ripple Current | 20% peak-to-peak | |
| DCR | 23mΩ ±15% @20°C | |
| Dielectric Strength | 2500V RMS | |
| Temperature Range | -40 To 105°C | |
| Core material | Carbonyl Iron Powder | |

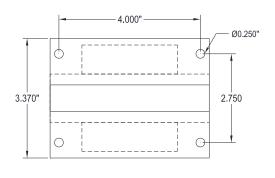
SCHEMATIC



DIMENSIONAL DETAILS:



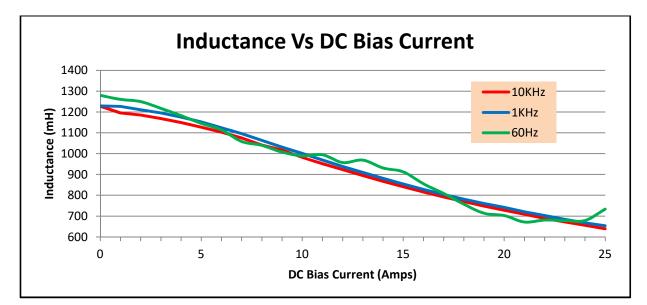


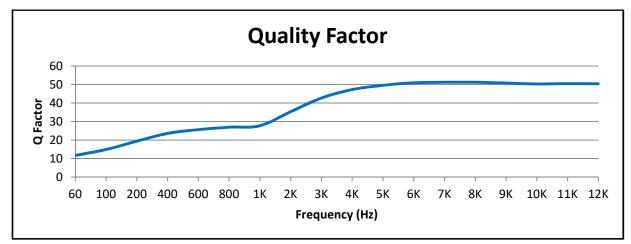


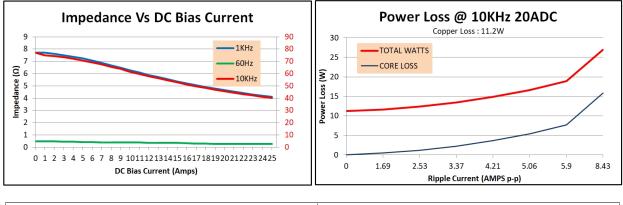
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PERFORMANCE GRAPHS:







| 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 ±0.063". |

Release 1: 31072020