



## 197 Series High Frequency Reactors

### 197AA15

**Features:**

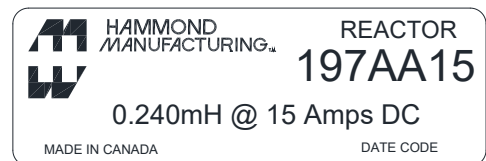
- High permeability core ideal for applications <50Khz
- High self-resonant frequency values
- Universal channel frame package for maximum versatility
- Insulated flexible leads 6" minimum
- Weight: 14 oz.



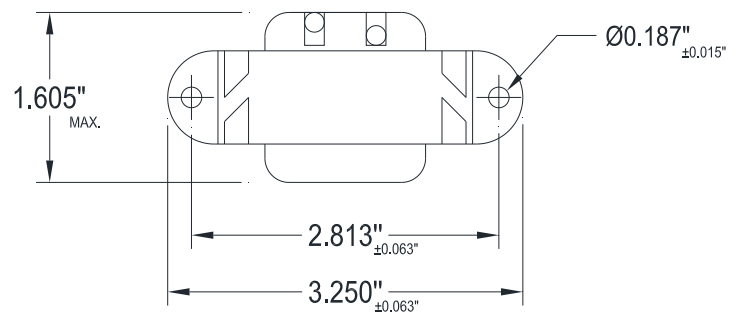
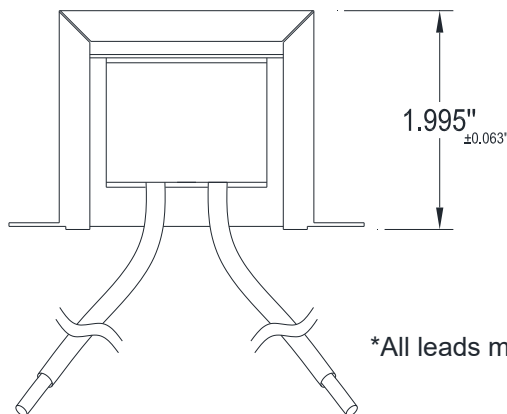
#### ELECTRICAL SPECIFICATIONS

Characteristic	Typical
Inductance with bias	0.240mH ±15% @ 15ADC
Operating Frequency	60Hz – 10KHz
Self-Resonant Frequency	739.5 KHz
Impedance @ SRF	6.05K Ohms
Ripple Current	20% peak-to-peak
DCR	38mΩ ±15% @20°C
Dielectric Strength	2000V RMS
Temperature Range	-40 To 105°C
Core material	Carbonyl Iron Powder

#### SCHEMATIC

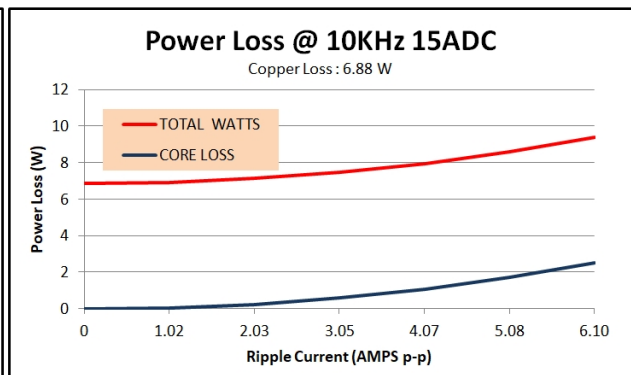
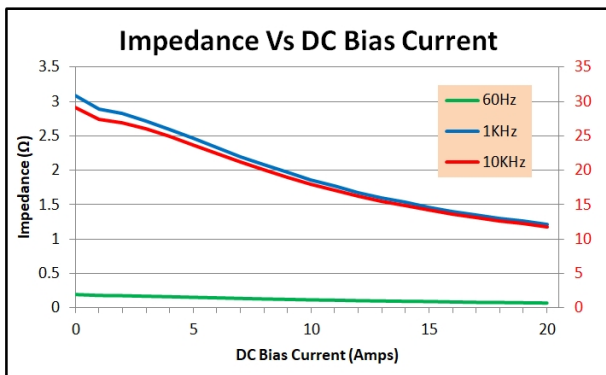
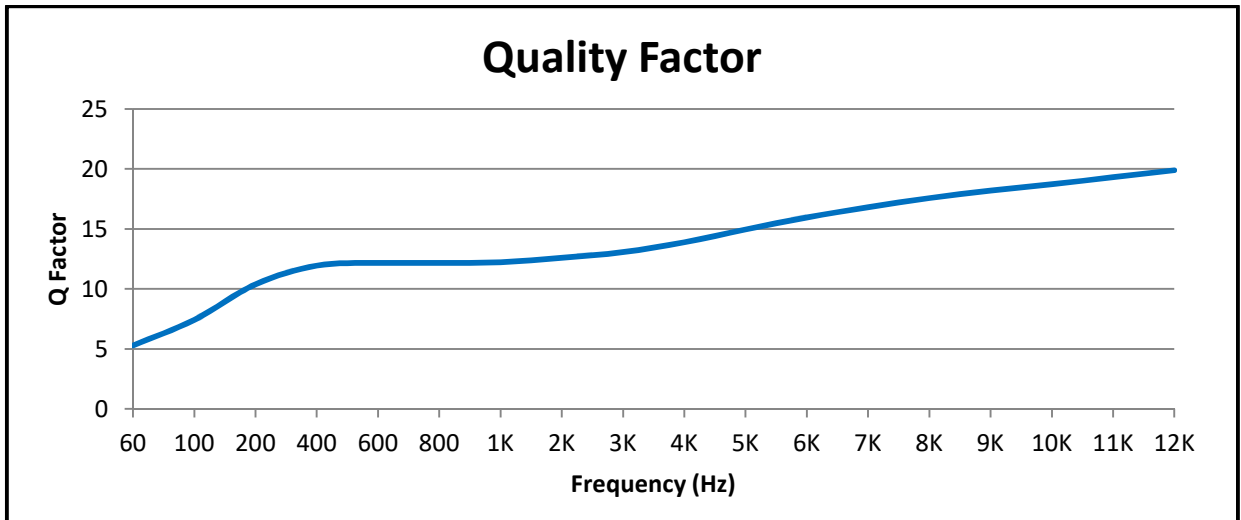
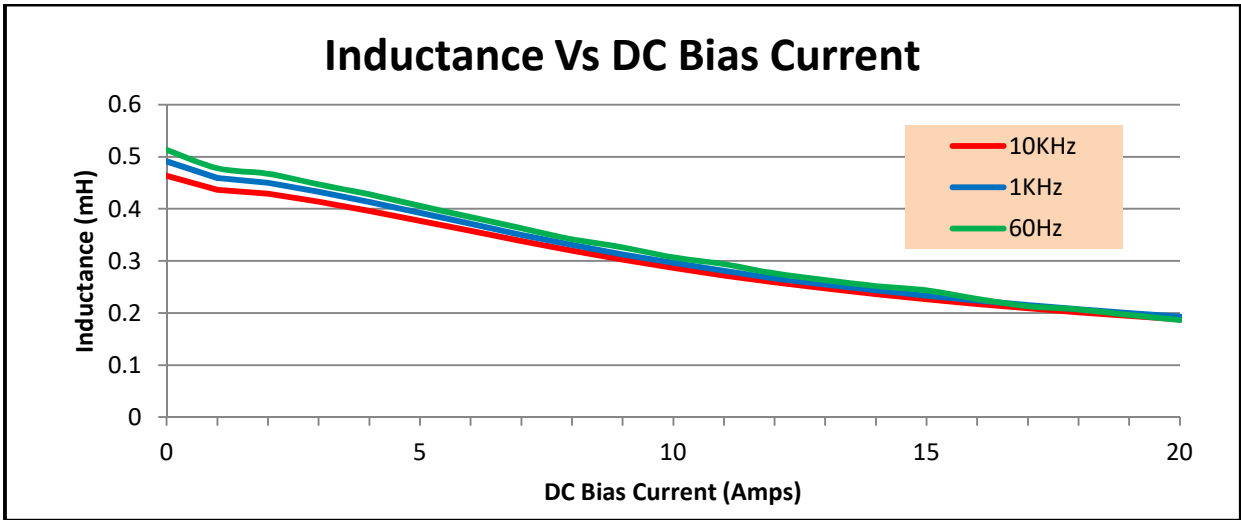


#### DIMENSIONAL DETAILS:



\*All leads minimum 6" long out.

**PERFORMANCE GRAPHS:**



MEASUREMENT INSTRUMENTS	TEST & DIMENSIONAL CONDITIONS
<ul style="list-style-type: none"> <li>▪ Voltech DC1000A Precision DC Bias Current Source</li> <li>▪ Wayne Kerr 3255B with a 3265B Inductance Analyzer</li> <li>▪ Agilent E4980A Precision LCR Meter</li> <li>▪ HP 4192A LF Impedance Analyzer</li> <li>▪ Keithley 2010 DVM</li> </ul>	<ol style="list-style-type: none"> <li>1. Performance graphs @1.0 volt AC drive.</li> <li>2. Power loss computation from core manufacturer's data.</li> <li>3. The results are typical and are subject to normal manufacturing and electrical tolerances.</li> <li>4. Dimensional tolerance ±0.063" unless otherwise specified.</li> </ol>