Hammond Mfg. Co. Ltd., Electronics Division
www.hammfg.com

197 Series High Frequency Reactors

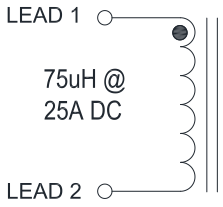
197AC25

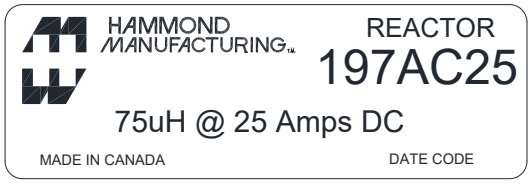
Features:

- 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.

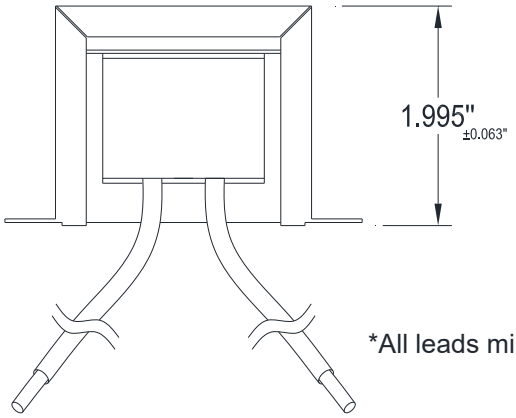
ELECTRICAL SPECIFICATIONS	
Characteristic	**Typical**
Inductance with bias	75uH ±15% @ 25ADC
Operating Frequency	60Hz – 10KHz
Self-Resonant Frequency	272.30 KHz
Impedance @ SRF	12.27K Ohms
Ripple Current	20% peak-to-peak
DCR	18mΩ ±15% @20°C
Dielectric Strength	2000 VRMS
Temperature Range	-40 To 105°C
Core material	Carbonyl Iron Powder

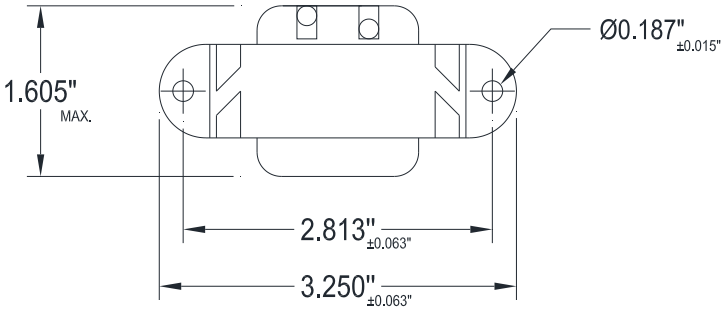
SCHEMATIC





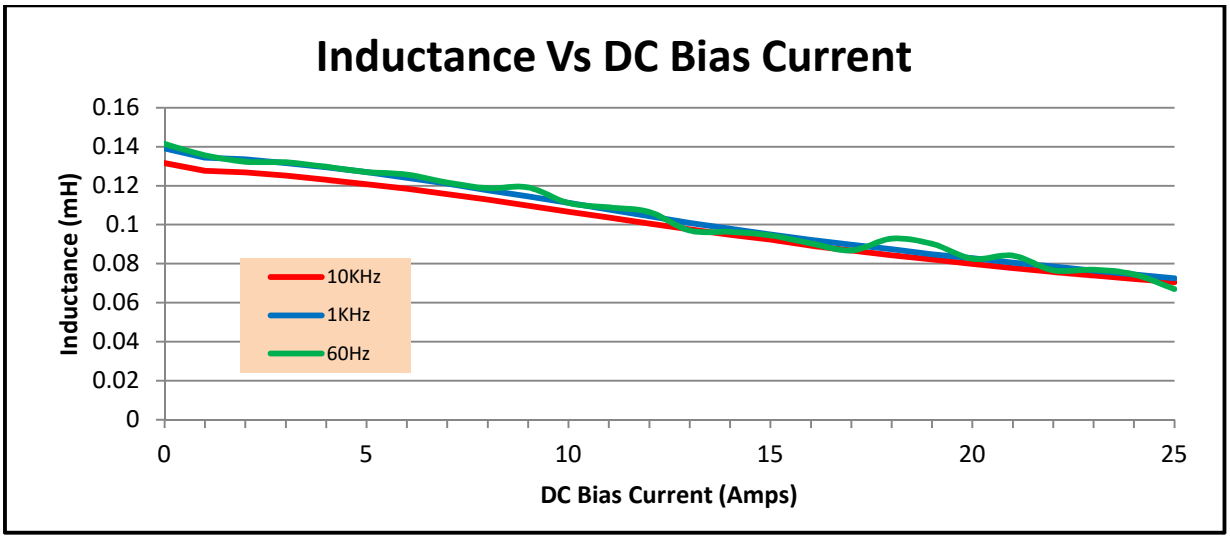
DIMENSIONAL DETAILS:

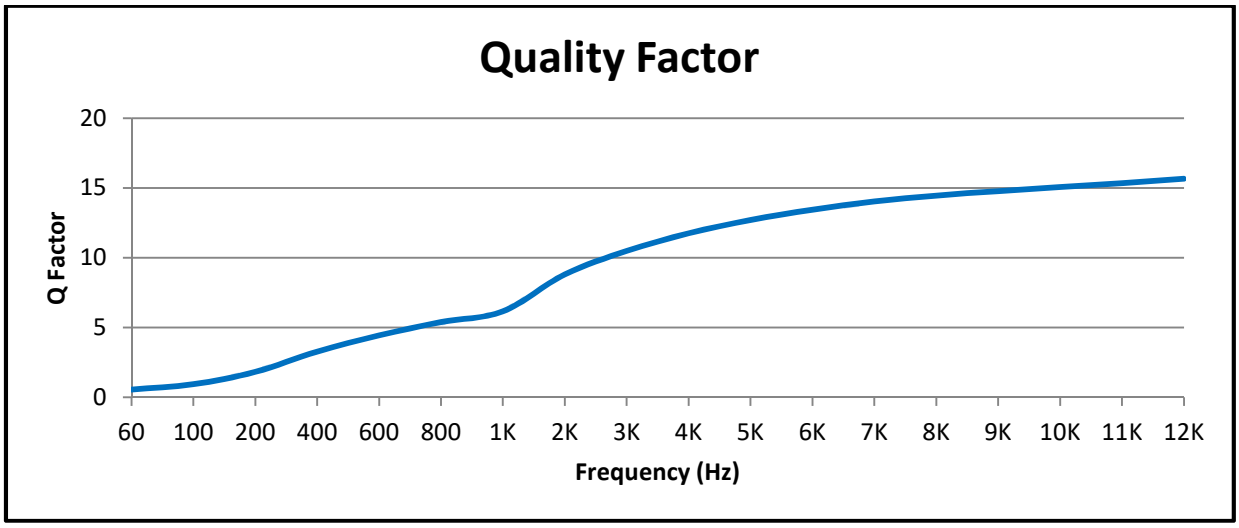


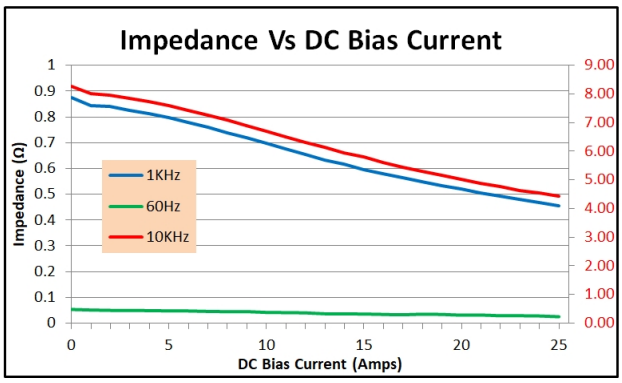


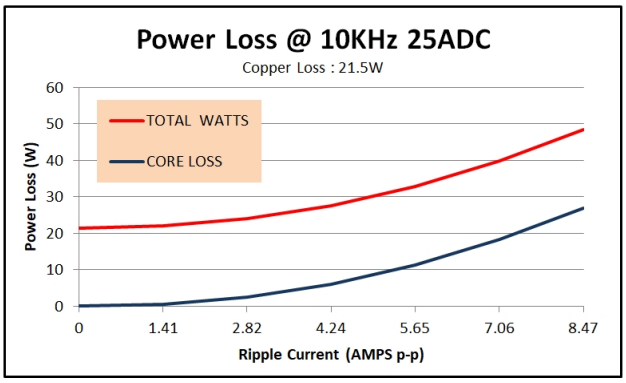
*All leads minimum 6" long out.

PERFORMANCE GRAPHS:









MEASUREMENT INSTRUMENTS	TEST & DIMENSIONAL CONDITIONS
▪ 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	**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"unless otherwise specified.