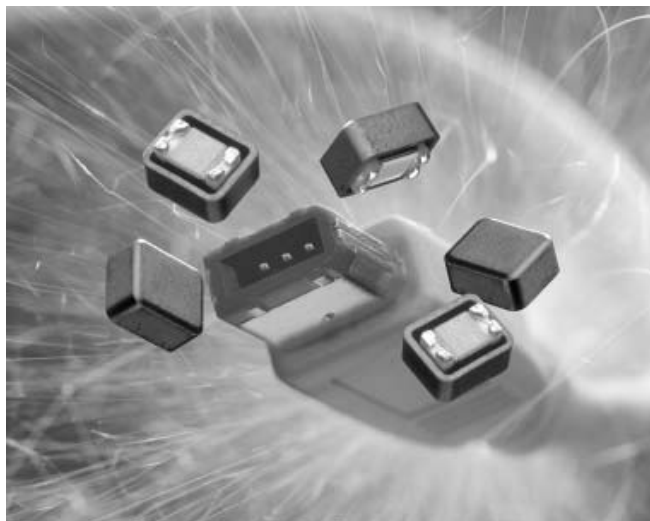


IEEE 1394 Common Mode Choke



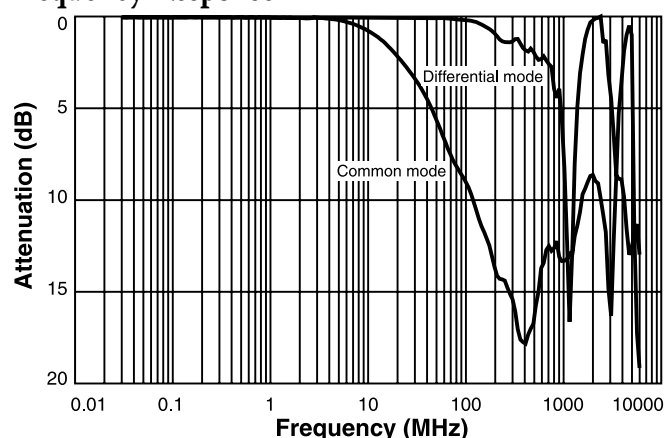
The CM1394 provides a low cost, high performance way to virtually eliminate common mode noise from IEEE 1394/FireWire and other twisted pair interfaces.

It provides over 17 dB attenuation of common mode noise at 400 MHz while differential mode signals extend out to 800 MHz before reaching the 3 dB point. Future designs will extend that to 1 GHz.

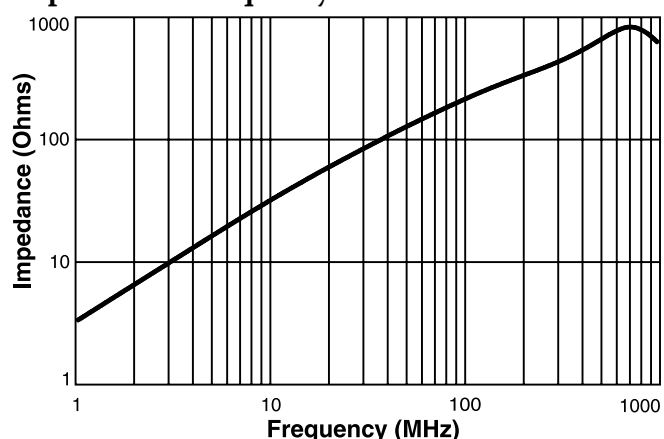
This shielded, 1812 size filter is machine wound, making it less expensive than hand-wound toroid designs. It also assures tighter tolerances between windings for excellent impedance balance. Coilcraft's CM1394 meets the IEEE 1.5 Amp Irms specification and has a maximum DCR of 0.105 Ohms.

To request free evaluation samples, contact Coilcraft or visit www.coilcraft.com.

Frequency Response



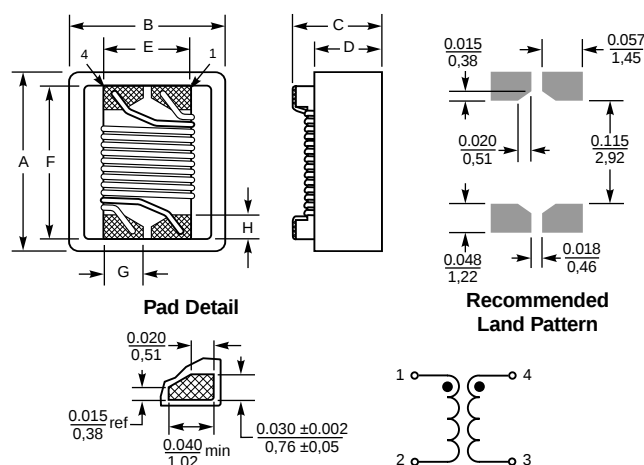
Impedance vs Frequency



Part number	Inductance ¹ min (μH)	DCR max (Ohms)	Irms ² (Amps)
CM1394	0.22	0.105	1.5

Insertion loss (dB) common mode/differential mode			
100 MHz	200 MHz	400 MHz	500 MHz
9.04 / 0.19	13.66 / 0.94	17.75 / 1.79	17.11 / 2.09

- 1 Test frequency 100 kHz
- 2 Average current for 15°C rise from 25° ambient
- 3 Operating temperature range -40°C to +85°C
- 4 Electrical specifications at 25°C



A max	B max	C max	D ref	E ref	F ref	G min	H
0.231	0.196	0.150	0.107	0.100	0.178	0.04	0.03
5,87	4,98	3,81	2,72	2,54	4,52	1,02	0,76

Parts/reel: 7" 600; 13" 2,200 Tape width: 12 mm
For packaging data see Tape and Reel Specifications section.

Coilcraft®

Specifications subject to change without notice. Document 215 Revised 02/14/03

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