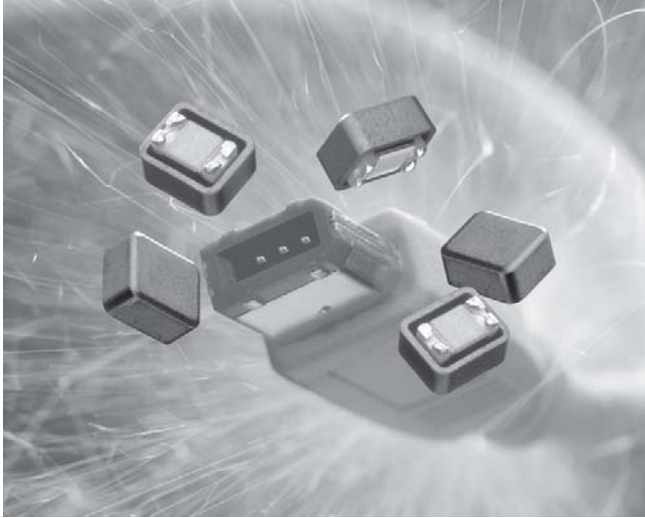




IEEE 1394 Common Mode Choke



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.

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.

Part number ¹	Inductance ² min (μ H)	DCR max (Ohms)	Irms ³ (Amps)
CM1394L_	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. When ordering, please specify **packaging** code:

CM1394LC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

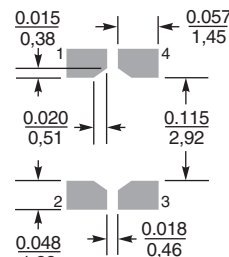
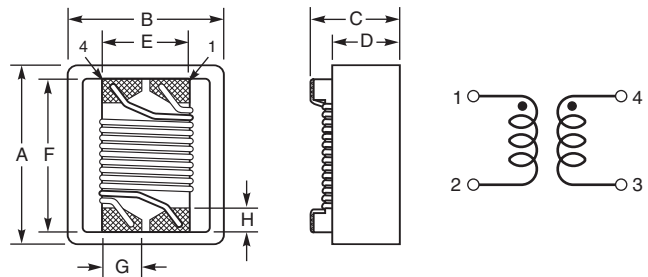
D = 13" machine-ready reel. EIA-481 embossed plastic tape (2200 parts per full reel).

2. Inductance measured at 100 kHz.

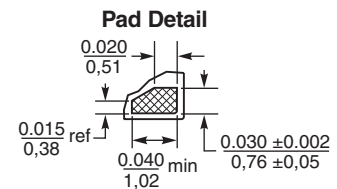
3. Average current for 15°C rise from 25°C ambient

4. Operating temperature range -40°C to +85°C

5. Electrical specifications at 25°C



**Recommended
Land Pattern**



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

Terminations: Gold over nickel over moly-manganese

Weight: 30 mg

Tape and reel: 600/7" reel; 2200/13" reel 12 mm tape width

For packaging data see Tape and Reel Specifications section.

Coilcraft[®]

Specifications subject to change without notice.

Please check our website for latest information. Document 215-1 Revised 01/26/05

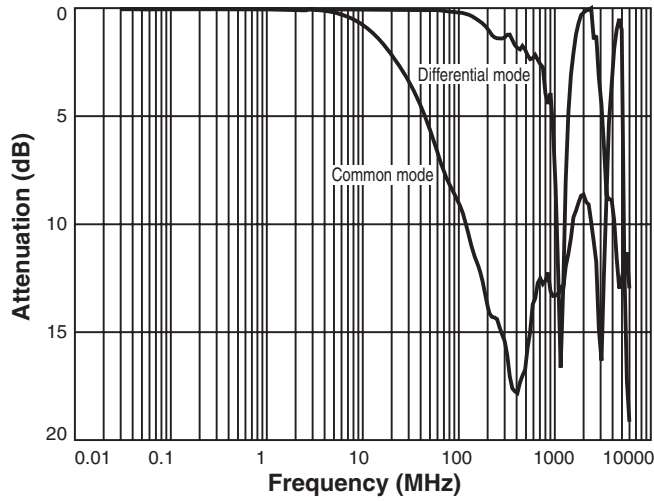
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>

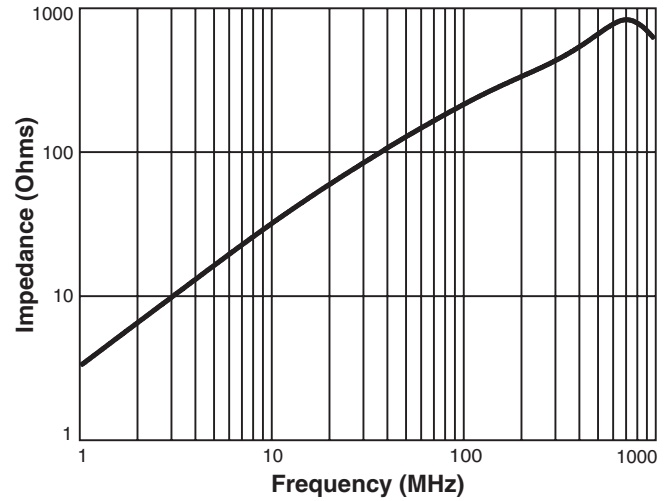


IEEE 1394 Common Mode Choke

Frequency Response



Impedance vs Frequency



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