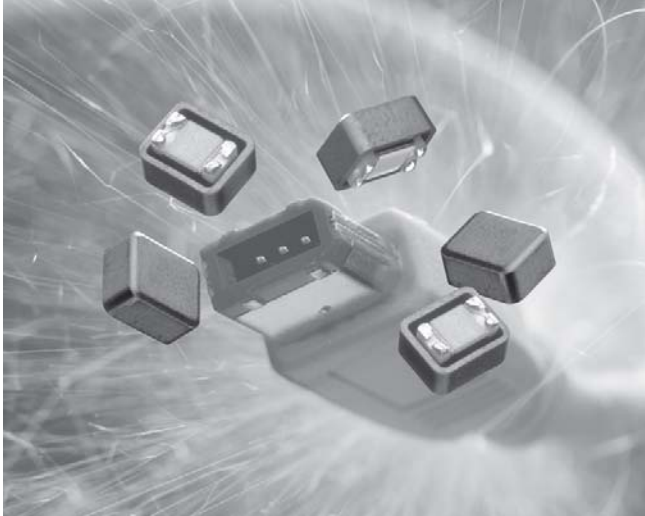




IEEE 1394 Common Mode Choke



The CM1394 provides a low cost, high performance way to virtually eliminate common mode noise from IEEE 1394 and other high-speed 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 I_{rms} 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 (μH)	DCR max (Ohms)	I _{rms} 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.

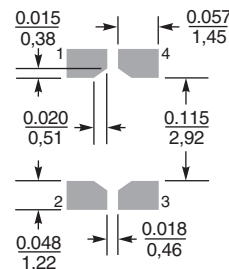
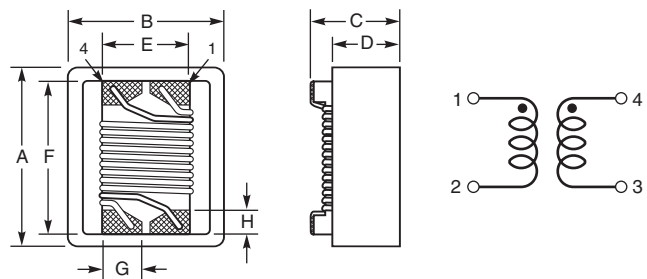
D = 13" machine-ready reel. EIA-481 embossed plastic tape (2200 parts per full reel).

2. Inductance measured at 100 kHz.

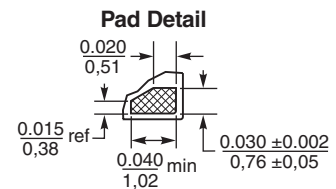
3. Average current for 15°C rise from 25°C ambient

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.

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Specifications subject to change without notice.

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

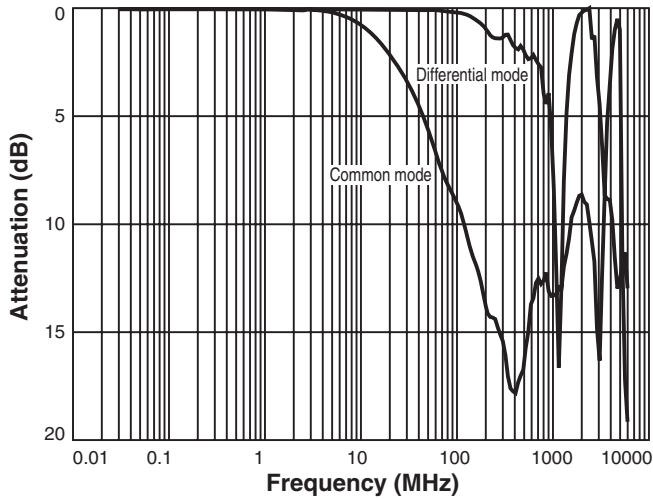
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

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

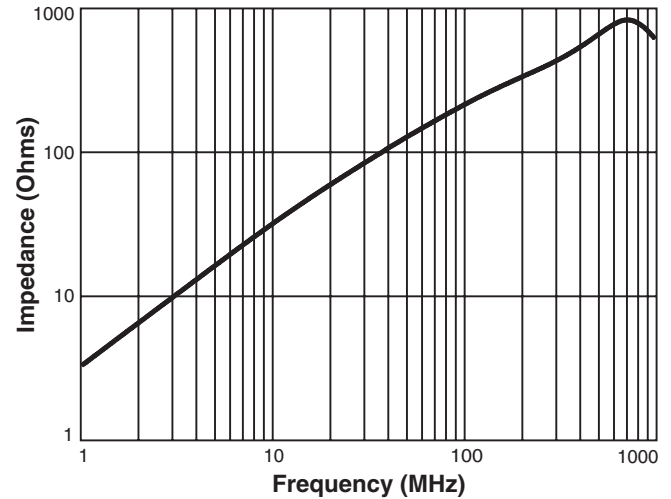


IEEE 1394 Common Mode Choke

Frequency Response



Impedance vs Frequency



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