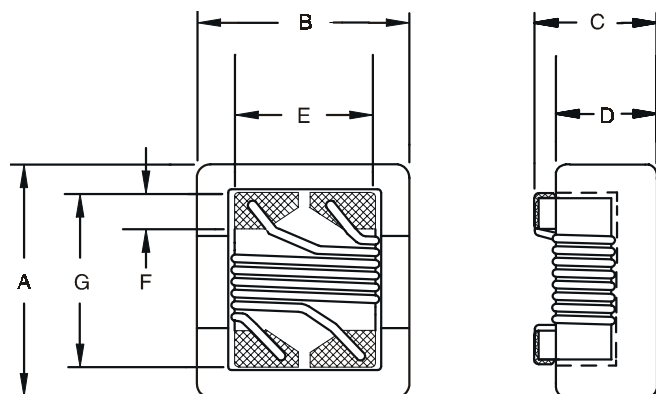


IEEE 1394 Common Mode Choke



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 IDC specification and has a maximum DCR of 0.105 Ohms.

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

A	B	C	D	E	F	G
0.225	0.181	0.15	0.105	0.1	0.03	0.178
5,72	4,60	3,81	2,67	2,54	0,76	4,52

Part number	Inductance ¹ ±20% (µH)	DCR max (Ohms)	IDC ² (Amps)	Insertion loss (dB) common mode / differential mode			
				100 MHz	200 MHz	400 MHz	500 MHz
CM1394	0.36	.105	1.5	9.04 / 0.19	13.66 / 0.94	17.75 / 1.79	17.11 / 2.09

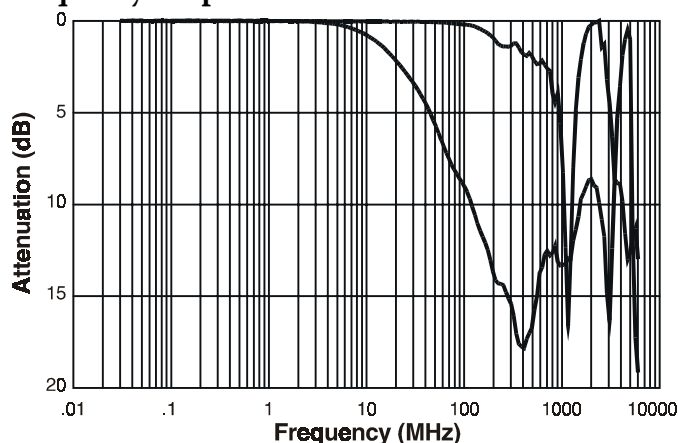
1 Test frequency 100 kHz

2 For 15° C rise

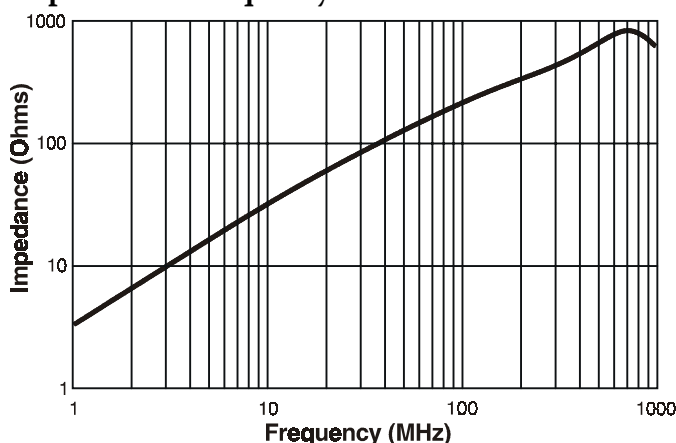
3 Operating temperature range -40° C to +125° C

4 Electrical specifications at 25° C

Frequency Response



Impedance vs Frequency



Coilcraft

Specifications subject to change without notice. Document 215 Revised 8/12/99

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