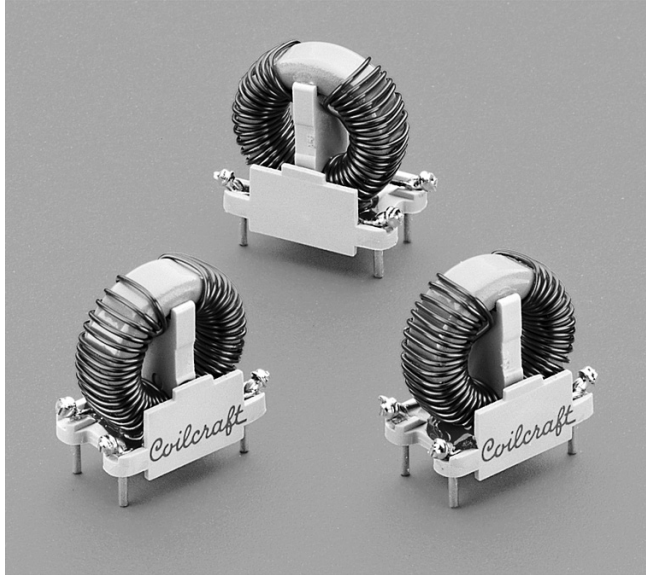


Common Mode Line Chokes – CMT



- Inductance values up to 125 mH
- Irms ratings as high as 15 Amps.
- 1250 Vrms, one minute isolation between windings
- Industry standard footprint.
- Creepage and clearance = 3.2 mm
- UL1446 Class B (130°C) Insulation System (UL File E83628)

Core material Iron

Terminations RoHS compliant tin-silver over copper

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.

Tray packaging: –40°C to +80°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

CMT-1 Series

Partnumber	Common mode peak impedance (kOhms)	Inductance ¹ min (mH)	DCR max ² (Ohms)	Leakage inductance ³ max (μH)	Isolation ⁴ (Vrms)	Irms (A)
CMT1-5.0-1L	46.64 @ 0.70 MHz	5.0	0.207	80	1250	1
CMT1-8.0-1L	81.12 @ 0.25 MHz	8.0	0.270	125	1250	1
CMT1-15.0-1L	160.4 @ 0.16 MHz	15	0.430	233	1250	1
CMT1-2.5-2L	28.16 @ 0.86 MHz	2.5	0.090	42	1250	2
CMT1-4.0-2L	46.14 @ 0.38 MHz	4.0	0.095	70	1250	2
CMT1-7.5-2L	17.74 @ 0.27 MHz	7.5	0.108	74	1250	2
CMT1-1.3-4L	8.97 @ 1.1 MHz	1.3	0.029	20	1250	4
CMT1-2.1-4L	22.06 @ 0.49 MHz	2.1	0.040	36	1250	4
CMT1-3.7-4L	5.48 @ 0.64 MHz	3.7	0.036	40	1250	4
CMT1-1.0-6L	6.21 @ 1.3 MHz	1.0	0.022	19	1250	6
CMT1-1.7-6L	12.64 @ 0.63 MHz	1.7	0.032	34	1250	6
CMT1-3.0-6L	7.76 @ 0.48 MHz	3.0	0.027	35	1250	6
CMT1-6-9L	4.57 @ 1.7 MHz	0.6	0.012	11	1250	9
CMT1-1.1-9L	2.74 @ 3.0 MHz	1.1	0.013	12	1250	9
CMT1-1.9-9L	3.67 @ 0.93 MHz	1.9	0.017	20	1250	9
CMT1-5-12L	3.41 @ 1.6 MHz	0.5	0.008	9.0	1250	12
CMT1-8-12L	1.99 @ 3.8 MHz	0.8	0.008	9.0	1250	12
CMT1-1.4-12L	3.53 @ 2.0 MHz	1.4	0.011	16	1250	12
CMT1-3-15L	1.58 @ 1.2 MHz	0.3	0.005	6.0	1250	15
CMT1-6-15L	1.48 @ 3.8 MHz	0.6	0.006	6.5	1250	15
CMT1-1.1-15L	2.01 @ 0.79 MHz	1.1	0.008	13.7	1250	15

1. Inductance shown for each winding, measured at 15.75 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.

2. DCR is for each winding.

3. Leakage inductance is measured from pin 1 to pin 4 with pins 2 and 3 shorted.

4. Interwinding isolation (hipot) tested for one minute.

5. Electrical specifications at 25°C.



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Common Mode Line Chokes – CMT Series

CMT-2 Series

Partnumber	Common mode peak impedance (kOhms)	Inductance ¹ min (mH)	DCR max ² (Ohms)	Leakage inductance ³ max (μH)	Isolation ⁴ (Vrms)	Irms (A)
CMT2-7.5-1L	82.49 @ 0.50 MHz	7.5	0.270	90	1250	1
CMT2-13-1L	161.5 @ 0.27 MHz	13	0.415	190	1250	1
CMT2-3.8-2L	32.73 @ 0.78 MHz	3.8	0.106	48	1250	2
CMT2-6.5-2L	56.35 @ 0.41 MHz	6.5	0.145	98	1250	2
CMT2-1.9-4L	16.92 @ 1.1 MHz	1.9	0.038	26	1250	4
CMT2-3.3-4L	29.70 @ 0.61 MHz	3.3	0.055	45	1250	4
CMT2-1.5-6L	14.54 @ 0.63 MHz	1.5	0.029	21	1250	6
CMT2-2.6-6L	19.17 @ 0.64 MHz	2.6	0.040	41	1250	6
CMT2-9-9L	4.92 @ 1.2 MHz	0.9	0.014	17	1250	9
CMT2-1.5-9L	3.34 @ 2.2 MHz	1.5	0.013	15	1250	9
CMT2-7-12L	4.89 @ 1.7 MHz	0.7	0.011	14	1250	12
CMT2-1.2-12L	2.98 @ 1.2 MHz	1.2	0.011	14	1250	12
CMT2-5-15L	4.25 @ 1.1 MHz	0.5	0.007	8.7	1250	15
CMT2-8-15L	2.15 @ 1.5 MHz	0.8	0.007	10	1250	15

CMT-3 Series

Partnumber	Common mode peak impedance (kOhms)	Inductance ¹ min (mH)	DCR max ² (Ohms)	Leakage inductance ³ max (μH)	Isolation ⁴ (Vrms)	Irms (A)
CMT3-32-1L	41.91 @ 0.10 MHz	32	0.650	485	1250	1
CMT3-56-1L	12.04 @ 0.10 MHz	56	0.900	780	1250	1
CMT3-16-2L	215.13 @ 0.12 MHz	16	0.240	210	1250	2
CMT3-28-2L	29.82 @ 0.10 MHz	28	0.330	410	1250	2
CMT3-8-4L	19.83 @ 0.27 MHz	8.0	0.061	57.5	1250	4
CMT3-14-4L	149.83 @ 0.12 MHz	14	0.120	180	1250	4
CMT3-6.6-6L	20.13 @ 0.32 MHz	6.6	0.048	49	1250	6
CMT3-11.5-6L	215.01 @ 0.18 MHz	11.5	0.088	140	1250	6
CMT3-4-9L	13.83 @ 0.43 MHz	4.0	0.026	37	1250	9
CMT3-7-9L	79.68 @ 0.16 MHz	7.0	0.045	104	1250	9
CMT3-3-12L	28.53 @ 0.46 MHz	3.0	0.022	40	1250	12
CMT3-5.2-12L	26.76 @ 0.38 MHz	5.2	0.025	47	1250	12
CMT3-2.5-15L	14.64 @ 0.34 MHz	2.5	0.019	42	1250	15
CMT3-4.4-15L	9.56 @ 0.37 MHz	4.4	0.017	48	1250	15

CMT-4 Series

Partnumber	Common mode peak impedance (kOhms)	Inductance ¹ min (mH)	DCR max ² (Ohms)	Leakage inductance ³ max (μH)	Isolation ⁴ (Vrms)	Irms (A)
CMT4-72-1L	66.10 @ 0.10 MHz	72	1.15	1400	1250	1
CMT4-125-1L	30.29 @ 0.10 MHz	125	1.15	1400	1250	1
CMT4-36-2L	433.33 @ 0.11 MHz	36	0.415	680	1250	2
CMT4-62-2L	13.29 @ 0.10 MHz	62	0.415	750	1250	2
CMT4-19-4L	247.34 @ 0.17 MHz	19	0.15	350	1250	4
CMT4-32-4L	28.15 @ 0.10 MHz	32	0.158	370	1250	4
CMT4-15-6L	186.61 @ 0.12 MHz	15	0.114	275	1250	6
CMT4-26-6L	91.87 @ 0.16 MHz	26	0.115	320	1250	6
CMT4-10-9L	157.53 @ 0.18 MHz	10	0.057	190	1250	9
CMT4-17-9L	39.44 @ 0.12 MHz	17	0.062	220	1250	9
CMT4-7.5-12L	80.52 @ 0.31 MHz	7.5	0.042	140	1250	12
CMT4-13-12L	26.48 @ 0.12 MHz	13	0.043	155	1250	12
CMT4-6-15L	56.92 @ 0.34 MHz	6.0	0.03	111	1250	15
CMT4-10-15L	19.27 @ 0.18 MHz	10	0.029	122	1250	15

1. Inductance shown for each winding, measured at 15.75 kHz, 0.1 Vrms, 0 A dc on an Agilent/HP 4284A LCR meter or equivalent.

2. DCR is for each winding.

3. Leakage inductance is measured from pin 1 to pin 4 with pins 2 and 3 shorted.

4. Interwinding isolation (hipot) tested for one minute.

5. Electrical specifications at 25°C.



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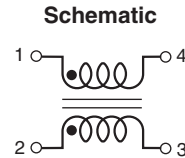
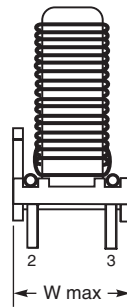
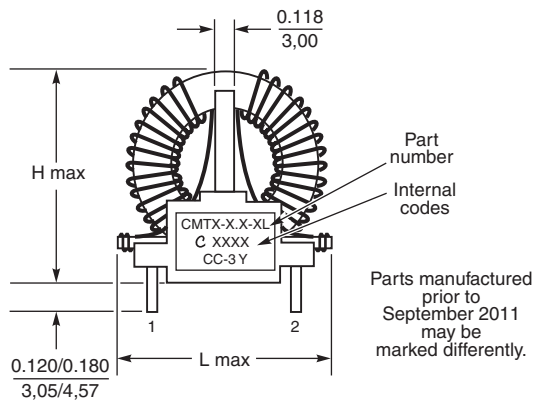
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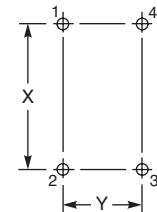


Common Mode Line Chokes – CMT Series



Weights: CMT1: 13.3 – 25.5 g
CMT2: 20.7 – 41.7 g
Terminations: Tin-silver over copper

Recommended PC Board Layout



CMT-1 Series

Part number	H max	L max	W max	X ±0.01/0,25	Y ±0.01/0,25	Lead diameter nom	PC board hole diameter
CMT1-5.0-1L	1.100/27,9	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-8.0-1L	1.100/27,9	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-15.0-1L	1.155/29,4	1.300/33,0	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-2.5-2L	1.100/27,9	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-4.0-2L	1.050/26,7	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-7.5-2L	1.155/29,4	1.300/33,0	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-1.3-4L	1.100/27,9	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-2.1-4L	1.100/27,9	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-3.7-4L	1.125/28,6	1.300/33,0	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-1.0-6L	1.100/27,9	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-1.7-6L	1.155/29,4	1.300/33,0	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-3.0-6L	1.200/30,5	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-6-9L	1.200/30,5	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.042/1,07	0.071/1,80
CMT1-1.1-9L	1.300/33,0	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.042/1,07	0.071/1,80
CMT1-1.9-9L	1.300/33,0	1.400/35,6	0.625/15,9	0.80/20,3	0.40/10,2	0.042/1,07	0.071/1,80
CMT1-5-12L	1.200/30,5	1.210/30,7	0.650/16,5	0.80/20,3	0.40/10,2	0.048/1,22	0.081/2,06
CMT1-8-12L	1.200/30,5	1.210/30,7	0.650/16,5	0.80/20,3	0.40/10,2	0.048/1,22	0.081/2,06
CMT1-1.4-12L	1.300/33,0	1.210/30,7	0.650/16,5	0.80/20,3	0.40/10,2	0.048/1,22	0.081/2,06
CMT1-3-15L	1.300/33,0	1.210/30,7	0.625/15,9	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-6-15L	1.250/31,8	1.210/30,7	0.650/16,5	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32
CMT1-1.1-15L	1.250/31,8	1.210/30,7	0.700/17,8	0.80/20,3	0.40/10,2	0.054/1,37	0.091/2,32

CMT-2 Series

Part number	H max	L max	W max	X ±0.01/0,25	Y ±0.01/0,25	Lead diameter nom	PC board hole diameter
CMT2-7.5-1L	1.100/27,9	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-13-1L	1.300/33,0	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-3.8-2L	1.100/27,9	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-6.5-2L	1.300/33,0	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-1.9-4L	1.100/27,9	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-3.3-4L	1.300/33,0	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-1.5-6L	1.100/27,9	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-2.6-6L	1.400/35,6	1.400/35,6	0.900/22,9	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-9-9L	1.200/30,5	1.310/33,3	0.825/21,0	0.90/22,9	0.60/15,2	0.042/1,07	0.071/1,80
CMT2-1.5-9L	1.250/31,8	1.250/31,8	0.825/21,0	0.90/22,9	0.60/15,2	0.042/1,07	0.071/1,80
CMT2-7-12L	1.200/30,5	1.250/31,8	0.825/21,0	0.90/22,9	0.60/15,2	0.048/1,22	0.081/2,06
CMT2-1.2-12L	1.200/30,5	1.250/31,8	0.825/21,0	0.90/22,9	0.60/15,2	0.048/1,22	0.081/2,06
CMT2-5-15L	1.300/33,0	1.300/33,0	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32
CMT2-8-15L	1.200/30,5	1.250/31,8	0.825/21,0	0.90/22,9	0.60/15,2	0.054/1,37	0.091/2,32



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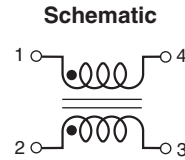
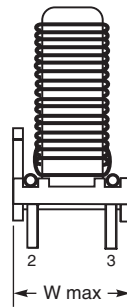
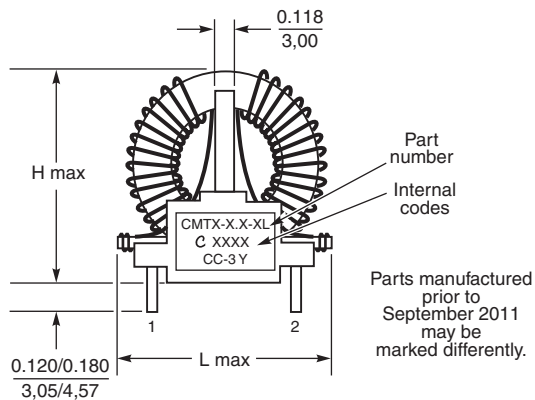
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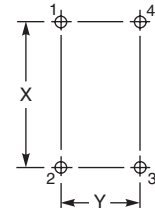


Common Mode Line Chokes – CMT Series



Weights: CMT3: 42.5 – 77.2 g
CMT4: 115 – 117 g
Terminations: Tin-silver over copper

Recommended PC Board Layout



CMT-3 Series

Part number	H max	L max	W max	X ±0.01/0,25	Y ±0.01/0,25	Lead diameter nom	PC board hole diameter
CMT3-32-1L	1.400/35,6	1.650/41,9	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-56-1L	1.650/41,9	1.650/41,9	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-16-2L	1.400/35,6	1.650/41,9	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-28-2L	1.650/41,9	1.650/41,9	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-8-4L	1.350/34,3	1.650/41,9	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-14-4L	1.700/43,2	1.650/41,9	0.950/24,1	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-6.6-6L	1.400/35,6	1.600/40,6	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-11.5-6L	1.700/43,2	1.650/41,9	0.925/23,5	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-4-9L	1.400/35,6	1.450/36,8	0.925/23,5	1.20/30,5	0.70/17,8	0.042/1,07	0.071/1,80
CMT3-7-9L	1.760/44,7	1.760/44,7	0.975/24,8	1.20/30,5	0.70/17,8	0.042/1,07	0.071/1,80
CMT3-3-12L	1.700/43,2	1.700/43,2	0.950/24,1	1.20/30,5	0.70/17,8	0.048/1,22	0.081/2,06
CMT3-5.2-12L	1.700/43,2	1.700/43,2	1.000/25,4	1.20/30,5	0.70/17,8	0.048/1,22	0.081/2,06
CMT3-2.5-15L	1.750/44,5	1.750/44,5	1.000/25,4	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32
CMT3-4.4-15L	1.700/43,2	1.700/43,2	1.000/25,4	1.20/30,5	0.70/17,8	0.054/1,37	0.091/2,32

CMT-4 Series

Part number	H max	L max	W max	X ±0.01/0,25	Y ±0.01/0,25	Lead diameter nom	PC board hole diameter
CMT4-72-1L	2.100/53,3	2.100/53,3	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-125-1L	2.200/55,9	2.150/54,6	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-36-2L	2.215/56,3	2.150/54,6	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-62-2L	2.200/55,9	2.150/54,6	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-19-4L	2.200/55,9	2.180/55,4	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-32-4L	2.200/55,9	2.180/55,4	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-15-6L	2.200/55,9	2.180/55,4	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-26-6L	2.225/56,5	2.180/55,4	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-10-9L	2.200/55,9	2.180/55,4	1.130/28,7	1.50/38,1	0.90/22,9	0.042/1,07	0.071/1,80
CMT4-17-9L	2.280/57,9	2.250/57,2	1.150/29,2	1.50/38,1	0.90/22,9	0.042/1,07	0.071/1,80
CMT4-7.5-12L	2.200/55,9	2.250/57,2	1.130/28,7	1.50/38,1	0.90/22,9	0.048/1,22	0.081/2,06
CMT4-13-12L	2.250/57,2	2.300/58,4	1.130/28,7	1.50/38,1	0.90/22,9	0.048/1,22	0.081/2,06
CMT4-6-15L	2.250/57,2	2.250/57,2	1.150/29,2	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32
CMT4-10-15L	2.280/57,9	2.300/58,4	1.130/28,7	1.50/38,1	0.90/22,9	0.054/1,37	0.091/2,32



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