

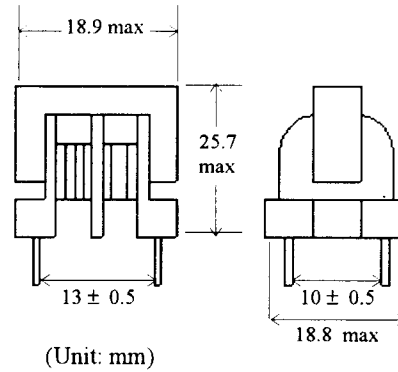
**COMMON MODE CHOKES, UU STYLE**

**CCMU16 Series, 250 VAC**

Common mode chokes are used to minimize the common mode noise fed back into the power line by switching power supplies and other devices such as triacs, SCRs relays, etc.

CET common mode chokes incorporate several features that help designers meet the filtering requirements of international safety agencies as well as to optimize the circuit for particular noise levels and frequencies produced by each power supply design.

- 3 mm creepage for meeting UL, VDE IEC, CSA requirements
- UL approved Class B 130°C insulation system is available
- 3750 RMS isolation between windings
- Windings balanced within 1%



**SPECIFICATIONS FOR CMU16 SERIES**

Part Number	Inductance* L (mH)	Rated** Current (Amps)	DCR Max Ω
CCMU16-333	33.0	0.3	3.50
CCMU16-223	33.0	0.4	2.00
CCMU16-153	22.0	0.5	1.50
CCMU16-103	15.0	0.5	1.50
CCMU16-802	10.0	0.5	1.00
CCMU16-602	8.0	0.8	0.50
CCMU16-502	6.0	0.6	0.70
CCMU16-322	5.0	1.2	0.30
CCMU16-302	3.2	1.0	0.34
CCMU16-202	2.0	1.0	0.30
CCMU16-101	1.0	1.0	0.25
CCMU16-102	1.0	2.0	0.15
CCMU16-152	1.5	2.0	0.20

\* Inductance is minimum per winding, as measured on HP 4263A meter or equivalent.

\*\* At the rated current temperature, rise is less than 60°C.

**For custom values of inductance and current ratings, contact CET.**

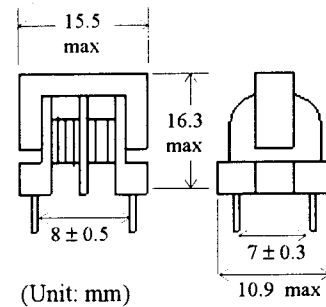


## COMMON MODE CHOKES, UU STYLE

### Special Small Size CCMU10 Series

CCMU10 common mode chokes have been specially developed by CET in a very small package size in order to save the crucial printed circuit area. A wide range of inductance values are available for the designers to choose from.

- 1.6 mm creepage for meeting UL, CSA requirements
- UL approved Class B 130°C insulation system is available
- 1500 VRMS isolation between windings
- Windings balanced within 1%



### SPECIFICATIONS FOR CMU10 SERIES

Part Number	Inductance* L (mH)	Rated** Current (Arms)	DCR Max Ω
CCMU10-221	0.22	0.71	0.04
CCMU10-391	0.39	0.58	0.06
CCMU10-471	0.47	0.50	0.08
CCMU10-561	0.56	0.47	0.09
CCMU10-681	0.68	0.45	0.10
CCMU10-821	0.82	0.40	0.13
CCMU10-102	1.0	0.38	0.14
CCMU10-152	1.5	0.30	0.23
CCMU10-222	2.2	0.27	0.27
CCMU10-272	2.7	0.24	0.35
CCMU10-332	3.3	0.20	0.53
CCMU10-392	3.9	0.19	0.57
CCMU10-472	4.7	0.18	0.63
CCMU10-562	5.6	0.15	0.87
CCMU10-682	6.8	0.13	1.15
CCMU10-822	8.2	0.12	1.30
CCMU10-103	10	0.10	1.80
CCMU10-153	15	0.08	2.80
CCMU10-223	22	0.07	3.50
CCMU10-273	27	0.06	4.80
CCMU10-333	33	0.05	6.70

\* Inductance is minimum per winding, as measured on HP 4263A meter or equivalent.

\*\* At the rated current temperature, rise is less than 60°C.

For custom values of inductance and current ratings, contact CET.

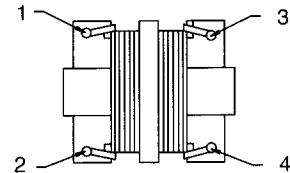
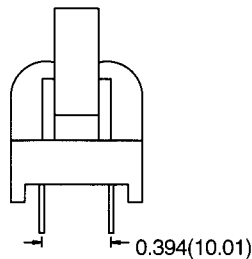
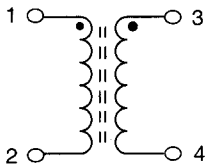
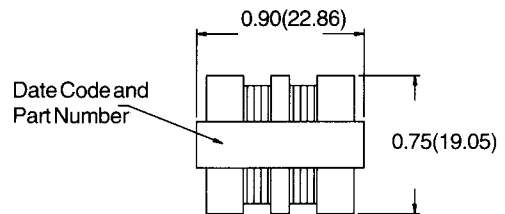
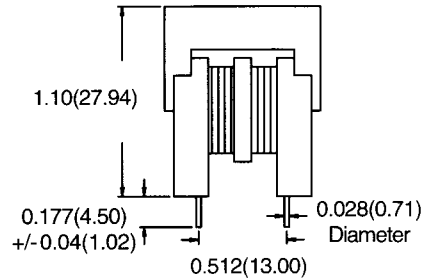


**COMMON MODE CHOKES**

Common Mode chokes can be used to minimize EMI radiated noise in the common mode on all power applications. CET offers a variety of inductances and rated currents to provide full coverage of power requirements.

- 2000 volts AC for 60 seconds isolation voltage
- 250 volts AC/DC rated voltage
- Insulation resistance is 100 Mohms minimum at 500 VDC

<b>ELECTRICAL SPECIFICATIONS @ 25°C</b>			
<b>Part Number</b>	<b>Rated Current 1/Line</b>	<b>Inductance OCL (mH) Min.</b>	<b>DCR (ohm/line) Max</b>
CCMU23-0303-00	0.40	30.0	2.80
CCMU23-0203-00	0.40	20.0	2.20
CCMU23-0203-01	0.50	20.0	1.60
CCMU23-0103-00	0.60	10.0	1.20
CCMU23-0083-00	0.80	8.00	0.80
CCMU23-0063-00	0.80	6.00	0.70
CCMU23-0063-01	1.00	6.00	0.50
CCMU23-0043-00	1.00	4.00	0.40
CCMU23-0033-00	0.75	3.00	1.00
CCMU23-0033-01	1.20	3.00	0.40
CCMU23-0023-00	1.20	2.00	0.30
CCMU23-0013-00	1.50	1.50	0.30



**Cross Reference: Bel 0571 Series**



**CET COMMON MODE CHOKES**

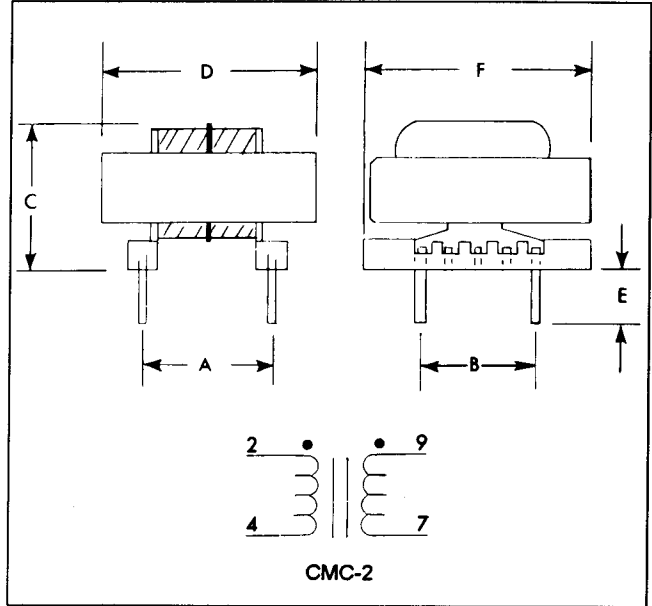
**MODEL CMC-**

**FEATURES**

CET Common Mode Chokes are designed to help meet U.S. and international requirements for safety and EMI. By placing these chokes at the inputs of electrical equipment or circuits, EMI feedback can be kept within specified limits. These low-priced chokes are available in a wide range of standard inductances and current ratings from 100mA to 5.5 AMPS

- Low profile
- 2500 VAC hipot
- Custom versions also available

Style	TYPICAL DIMENSIONS						Size	Term. No.
	A	B	C	D	E	F		
CMC-1	.515	.200	.622	.750	.175	0.850	.025 SQ.	4
CMC-2	.630	.400	.797	.850	.175	1.100	.025 SQ.	4



CET Part No.	L@ 1KC (μH)*	Max. DCR (Ohms)	Suggested Rated Current	Leakage L. Max. (μH)†	Max. Interwinding Capacitance (pF)
CMC-1-47	47	.016	3.5	4.0	6.
CMC-1-56	56	.018	3.5	4.0	7.
CMC-1-68	68	.019	3.5	5.0	8.
CMC-1-82	82	.023	2.8	5.5	8.5
CMC-1-100	100	.025	2.8	6.0	8.5
CMC-1-120	120	.028	2.8	6.5	8.5
CMC-1-150	150	.030	2.8	7.5	8.5
CMC-1-180	180	.038	2.2	8.0	8.5
CMC-1-220	220	.044	2.2	9.0	8.5
CMC-1-270	270	.051	2.2	10.	8.5
CMC-1-330	330	.058	1.7	11.	8.5
CMC-1-470	470	.078	1.4	16.	8.5
CMC-1-560	560	.091	1.4	18.	10.
CMC-1-680	680	.115	1.1	20.	10.
CMC-1-820	820	.131	1.1	25.	11.5
CMC-1-1000	1000	.194	.88	35.	11.5
CMC-1-1200	1200	.219	.88	47.	11.5
CMC-1-1500	1500	.278	.70	49.	11.5
CMC-1-1800	1800	.306	.70	59.	11.5
CMC-1-2200	2200	.431	.55	76.	12.5
CMC-1-2700	2700	.469	.55	91.	12.5
CMC-1-3300	3300	.531	.55	101.	17.
CMC-1-3900	3900	.669	.44	135.	17.
CMC-1-4700	4700	.760	.44	158.	17.
CMC-1-5600	5600	.853	.44	196.	17.
CMC-1-6800	6800	1.24	.35	257.	17.
CMC-1-8200	8200	1.40	.35	296.	17.
CMC-1-10000	10000	1.61	.35	362.	17.
CMC-1-12000	12000	1.98	.27	410.	17.
CMC-1-15000	15000	2.24	.27	503.	17.
CMC-1-18000	18000	2.45	.27	602.	17.
CMC-1-22000	22000	3.49	.22	730.	20.
CMC-1-27000	27000	4.60	.17	870.	20.
CMC-1-33000	33000	5.21	.17	1150.	20.
CMC-1-39000	39000	7.19	.13	1300.	20.
CMC-1-47000	47000	7.80	.13	1541.	20.
CMC-1-56000	56000	8.89	.13	1875.	20.
CMC-1-68000	68000	9.69	.13	2254.	20.
CMC-1-82000	82000	13.1	.10	2702.	25.
CMC-1-100000	100000	14.6	.10	3289.	36.
CMC-1-120000	120000	16.0	.10	3456.	36.

\* Measured between 2 and 3 or 6 and 7.  
† Measured with 2 and 3 shorted or 6 and 7 shorted.

CET Part No.	L@ 1KC (μH)*	Max. DCR (Ohms)	Suggested Rated Current	Leakage L. Max. (μH)†	Max. Interwinding Capacitance (pF)
CMC-2-56	56	.013	5.5	3.5	9.
CMC-2-68	68	.013	5.5	3.5	9.
CMC-2-82	82	.013	5.5	3.5	9.
CMC-2-100	100	.013	5.5	3.5	9.
CMC-2-120	120	.015	5.5	4.8	9.
CMC-2-150	150	.016	5.5	6.5	9.
CMC-2-180	180	.019	4.5	7.2	9.
CMC-2-220	220	.023	4.5	7.75	10.
CMC-2-270	270	.026	4.5	9.5	10.
CMC-2-330	330	.028	3.5	12.5	11.5
CMC-2-470	470	.033	3.5	14.	11.5
CMC-2-560	560	.038	3.5	18.	11.5
CMC-2-680	680	.040	3.5	23.	11.5
CMC-2-820	820	.063	2.8	26.	11.5
CMC-2-1000	1000	.068	2.8	35.	12.5
CMC-2-1200	1200	.099	2.2	40.	12.5
CMC-2-1500	1500	.115	1.7	43.	12.5
CMC-2-1800	1800	.131	1.7	54.	12.5
CMC-2-2200	2200	.174	.14	61.5	12.5
CMC-2-2700	2700	.188	1.4	118.	12.5
CMC-2-3300	3300	.331	1.1	135.	15.
CMC-2-3900	3900	.438	1.1	155.	15.
CMC-2-4700	4700	.500	.88	168.	15.
CMC-2-5600	5600	.525	.88	216.	15.
CMC-2-6800	6800	.625	.70	246.	15.
CMC-2-8200	8200	.813	.70	257.	15.
CMC-2-10000	10000	.875	.70	293.	15.
CMC-2-12000	12000	.938	.55	370.	15.
CMC-2-15000	15000	1.1	.70	435.	17.
CMC-2-18000	18000	1.5	.55	514.	17.
CMC-2-22000	22000	1.9	.55	527.	17.
CMC-2-27000	27000	2.1	.44	637.	17.
CMC-2-33000	33000	2.4	.44	812.	17.
CMC-2-39000	39000	3.0	.44	1000.	17.
CMC-2-47000	47000	3.1	.44	1137.	17.
CMC-2-56000	56000	4.4	.35	1400.	17.
CMC-2-68000	68000	5.3	.27	1950.	17.
CMC-2-82000	82000	5.9	.27	2475.	18.75
CMC-2-100000	100000	6.9	.27	2625.	18.75
CMC-2-120000	120000	9.4	.22	3200.	18.75
CMC-2-150000	150000	10.6	.22	3800.	18.75

\* Measured between 2 and 4 or 7 and 9.  
† Measured with 2 and 4 shorted or 7 and 9 shorted.

CROSS REFERENCE:RENCO RL-1361-1 and RL-1361-2



**CET TECHNOLOGY** 27 Roulston Rd., Windham, NH 03087 Tel: 603-894-6100 Fax: 603-894-6161