

CLJ-2 / CMJ-2 Series • Miniature SMD Common Mode Double Chokes

Features

- Miniature, low cost SMD for pick and place compatibility while providing consistent and reliable coplanarity
- Other inductance values, higher current ratings and special types for operation at 150°C ambient are available upon request
- High attenuation over a wide frequency range - CAN bus types to 500MHz
- Available in Bifilar and Sector (Suffix S) winding
- Materials: UL94-VO
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant and meets lead free reflow level J-STD-020C



Electrical Specifications @ 25°C

Nominal Voltage: 42Vac (50/60Hz), 80Vdc

Operating Temperature: -25° to +85°C

Storage Temperature: -40° to +125°C

Climatic category: according to IEC68-1 25/85/56

Test frequency:

Nominal Inductance < 20mH, measured @ 100KHz/20mV

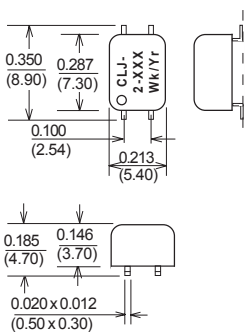
Nominal Inductance > 20mH, measured @ 10KHz/100mV

Leakage Inductance: measured @ 100KHz/100mV

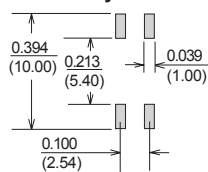
Test Voltage between windings: 500Vrms

Part Number	OCL (μH) +50/-30%	I _N (mA)	L _L (μH)	R _{CU} (mOhms)	Number of Data Lines	Number of Data Lines
Sector Winding for CAN bus and similar applications						
CLJ/CMJ-2-060S	6	2500	0.40	80	2	2
CLJ/CMJ-2-250S	25	800	0.95	110	2	2
CLJ/CMJ-2-510S	51	800	2.00	160	2	2
Bifilar Winding for Data and Signal Lines						
CLJ/CMJ-2-050	5	1200	0.05	60	2	2
CLJ/CMJ-2-110	11	500	0.05	80	2	2
CLJ/CMJ-2-240	24	500	0.10	100	2	2
CLJ/CMJ-2-250	25	500	0.10	110	2	2
CLJ/CMJ-2-470	47	500	0.20	130	2	2
CLJ/CMJ-2-510	51	500	0.10	148	2	2
CLJ/CMJ-2-101	100	500	0.25	315	2	2
CLJ/CMJ-2-471	470	500	0.10	290	2	2
CLJ/CMJ-2-102	1000	500	0.16	275	2	2
CLJ/CMJ-2-222	2200	400	0.15	345	2	2
CLJ/CMJ-2-472	4700	200	0.19	940	2	2
CLJ/CMJ-2-103	10000	200	0.36	1400	2	2
CLJ/CMJ-2-203	20000	140	1.00	1800	2	2
CLJ/CMJ-2-473	47000	100	1.00	3900	2	2

Dimensions



Suggested Pad Layout



Bifilar Winding



Sector (CLJ-2-XXS) Winding



Schematic



Dimensions: Inches (Millimeters)

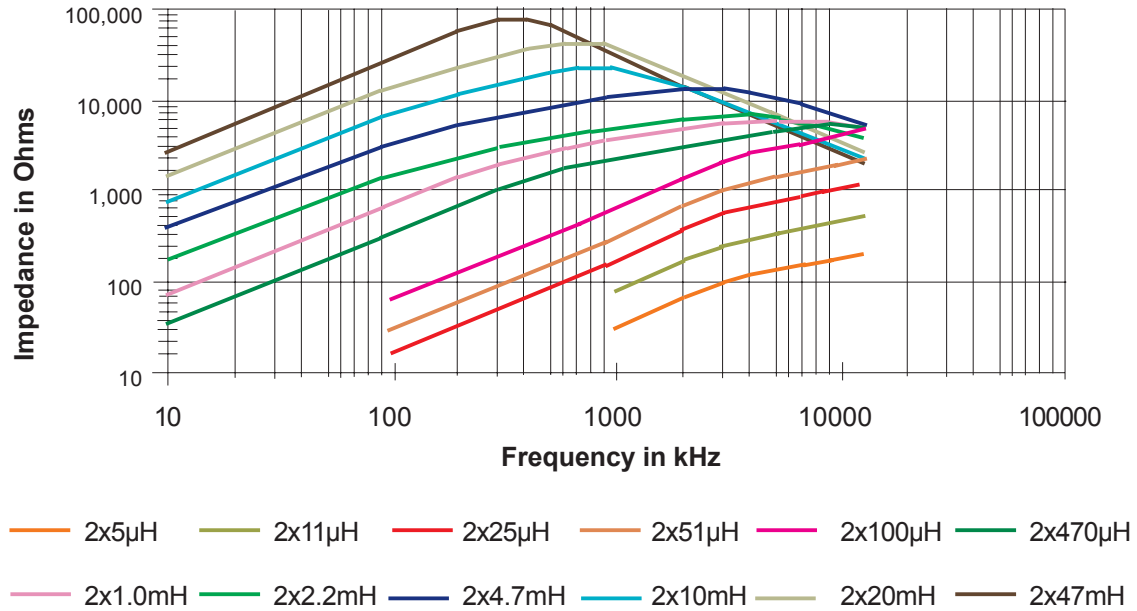
Tolerance: ±0.010 (0.25) unless specified otherwise

Surface Coplanarity will be 0.004 (0.10) maximum

See following page for typical impedance curves

Packing Method: Tape and Reel; Qty/Reel: 1000 Pcs

Impedance Performance - CMJ / CLJ-2 Series
 Double Chokes with Bifilar Winding



Regional Locations - Design, Manufacturing, Sales & Marketing
Talema Group Regional Offices
North America
**United States
(Sales & Marketing)**

Talema Group, LLC
 PO Box 935
 900 Innovation Drive
 Suite 120, Rolla
 Missouri 65402
 Tel: +1 573-303-3675
 E-Mail:
sales@talemagroup.com
 Web: www.talema.com

Asia
**India
(Design, Manufacturing, Sales & Marketing)**

Administrative Office
Talema Electronic India Private Limited
 Door No. 221, 1st and 2nd Floor
 KJ Plaza, Opp.to Vidya Mandir School
 Meyanoor Main Road
 Salem - 636 004 Tamil Nadu INDIA
 Tel: +91 427 - 243 3100
 Fax: +91 427 - 243 3109
 E-Mail: talema@talemaindia.net
 Web: www.talema.com

Factory Premises
Talema Electronic India Private Limited
 Plot Nos. 30, 31 Electrical and Electronic
 Industrial Estate
 Suramangalam
 Salem - 636 005 Tamil Nadu INDIA
 Tel: +91 427 - 243 3000
 E-Mail: talema@talemaindia.net
 Web: www.talema.com

Europe
**Germany
(Design, Sales & Marketing)**

Talema Elektronik GmbH
 Sembdnerstr. 5
 82110 Germering
 Tel: +49 89 - 841 00 - 0
 Fax: +49 89 - 841 00 25
 E-Mail: info@talema.de
 Web: www.talema.com

**Ireland
(Design, Sales & Marketing)**

Nuvotem TEO
 Units W & X, Gweedore Business Park
 Derrybeg, Letterkenny, Co. Donegal
 Tel: +353 (0) 74 95 48666
 Fax: +353 (0) 74 95 48139
 E-Mail: info@nuvotem.com
 Web: www.nuvotem.com

**Czech Republic
(Design, Manufacturing, Sales & Marketing)**

NT Magnetics s.r.o.
 Chebská 27
 322 00 Plzeň
 Tel: +420 377 - 338 351
 Fax: +420 377 - 338 350
 E-Mail: talema@talema.cz
 Web: www.ntmagnetics.cz

Locations of Talema Group Regional Offices
