

## 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-020F



### 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

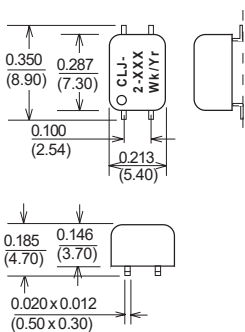
Nominal Inductance > 20mH, measured @ 10KHz/100mV

Leakage Inductance: measured @ 100KHz/100mV

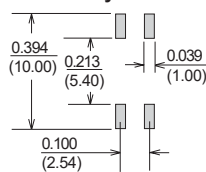
Test Voltage between windings: 500Vrms

Part Number	OCL (μH) +50/-30%	I <sub>N</sub> (mA)	L <sub>L</sub> (μH)	R <sub>CU</sub> (mOhms)	Number of Data Lines	Number of Data Lines
<b>Sector Winding for CAN bus and similiar applications</b>						
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
<b>Bifilar Winding for Data and Signal Lines</b>						
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)

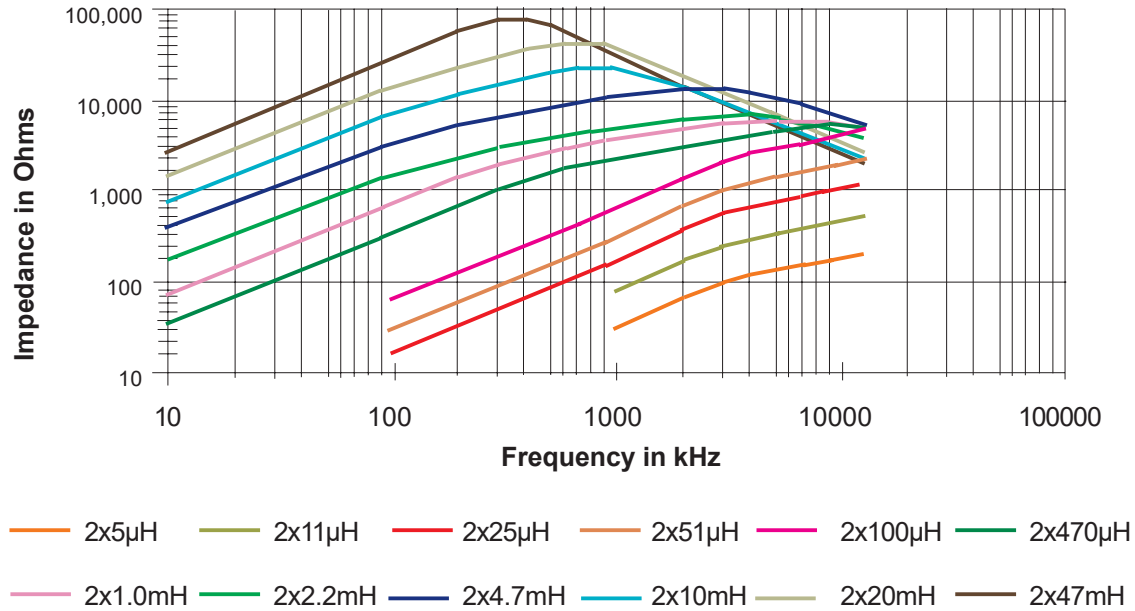
Tolerance: ±0.010 (0.25) unless specified otherwise

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



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