



CLJ-2 Series • Miniature SMD Common Mode Double Chokes

AlfaMag Electronics

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-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- Fully RoHS 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 voltage between windings: 500 Vrms

Test frequency

Nominal Inductance: measured @ 100kHz/20 mVrms

Leakage Inductance: measured @ 100kHz, 100mVrms

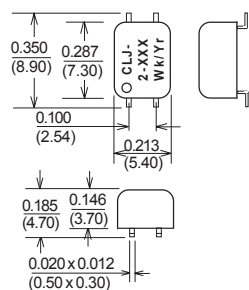
Test Equipment: HP4192A

Weight: ~ 0.3 gram

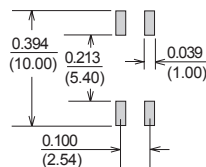
Packaging: Tape & Reel

Part Number	OCL (μH) +50/-30%	I _N (mA)	L _L (μH)	R _{CU} (mOhms)	V _T (Vrms)	Number of Data Lines
Sector Winding for CAN bus and similar applications						
CLJ-2-060S	6	2500	0.40	70	500	2
CLJ-2-250S	25	800	0.95	110	500	2
CLJ-2-510S	51	800	2.00	160	500	2
Bifilar Winding for Data and Signal Lines						
CLJ-2-050	5	1200	0.05	56	500	2
CLJ-2-110	11	500	0.05	80	500	2
CLJ-2-250	25	500	0.08	110	500	2
CLJ-2-510	51	500	0.10	148	500	2
CLJ-2-101	100	500	0.11	315	500	2
CLJ-2-471	470	500	0.10	290	500	2
CLJ-2-102	1000	500	0.16	275	500	2
CLJ-2-222	2200	400	0.12	345	500	2
CLJ-2-472	4700	200	0.19	940	500	2
CLJ-2-103	10000	200	0.36	1400	500	2
CLJ-2-203	20000	140	1.00	1800	500	2
CLJ-2-473	47000	100	1.00	3900	500	2

Dimensions



Suggested Pad Layout



Bifilar Winding



Sector (CLJ-2-XXS) Winding



Schematic



Surface Coplanarity will be 0.004(0.10) maximum

Dimensions: Inches (Millimeters)

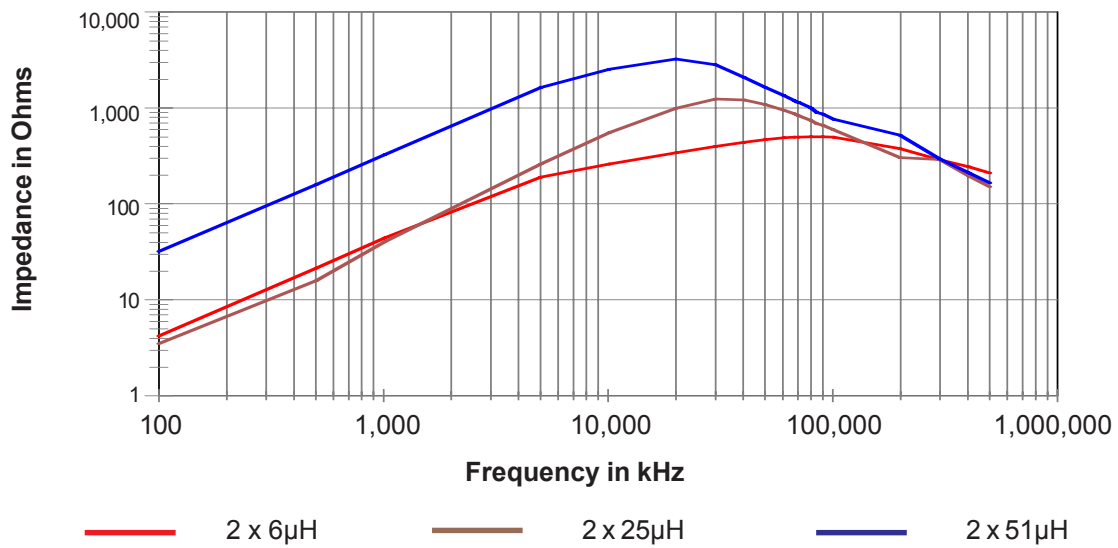
Tolerance: ±0.010 (0.25) unless specified otherwise

See following page for typical impedance curves

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CLJ-2 Series • Impedance Performance

Impedance Performance CLJ-2 Series Double Chokes with Sector Winding



Impedance Performance CLJ-2 Series Double Chokes with Bifilar Winding

