



CMJ-2 Series • Miniature SMD Common Mode Double Chokes

Features

- Miniature, low cost SMD for pick and place compatability while providing consistent and reliable coplanarity
- Other inductance values 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 winding (Suffix S)
- 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

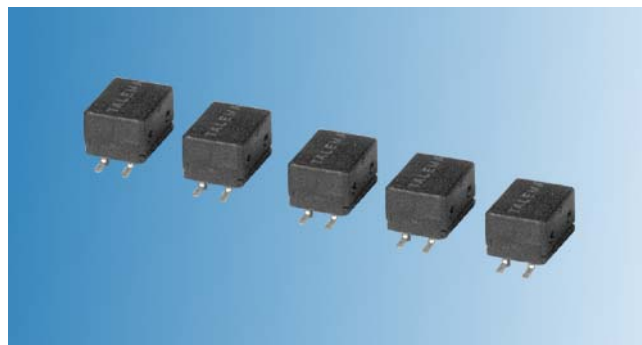
Nominal Voltage: 42Vac (50/60Hz), 80Vdc

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

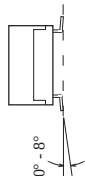
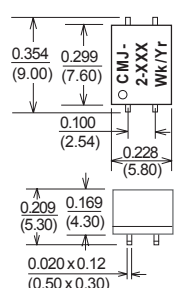
Test Equipment: HP4192A

Weight: ~ 0.3 gram

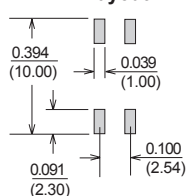
Packaging: Tape & Reel

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 similiar applications						
CMJ-2-060S	6	2500	0.40	22	500	2
CMJ-2-250S	25	800	1.50	112	500	2
CMJ-2-510S	51	800	2.00	148	500	2
Bifilar Winding for Data and Signal Lines						
CMJ-2-050	5	1200	0.05	100	500	2
CMJ-2-110	11	500	0.05	120	500	2
CMJ-2-250	25	500	0.10	96	500	2
CMJ-2-510	51	500	0.10	148	500	2
CMJ-2-101	100	500	0.25	260	500	2
CMJ-2-471	470	500	0.20	248	500	2
CMJ-2-102	1000	500	0.25	250	500	2
CMJ-2-222	2200	400	0.15	280	500	2
CMJ-2-472	4700	200	0.30	845	500	2
CMJ-2-103	10000	200	0.40	1200	500	2
CMJ-2-203	20000	140	0.70	1800	500	2
CMJ-2-473	47000	100	1.50	3450	500	2

Dimensions



Suggested Pad Layout



Bifilar Winding



Sector CMJ-2-XXXX Winding



Schematic



Surface Coplanarity will be 0.004(0.10) maximum

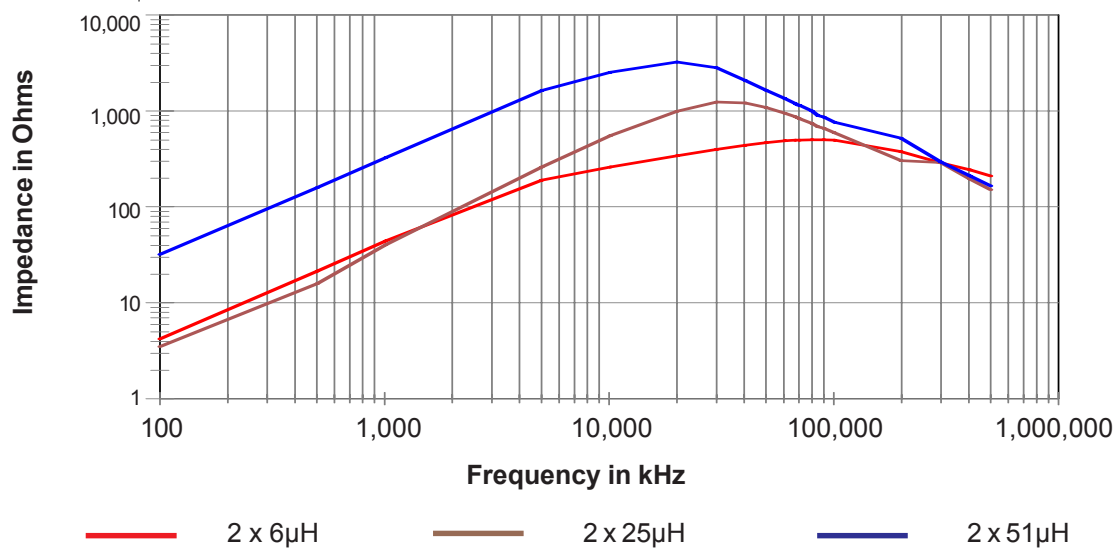
Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25) unless specified otherwise

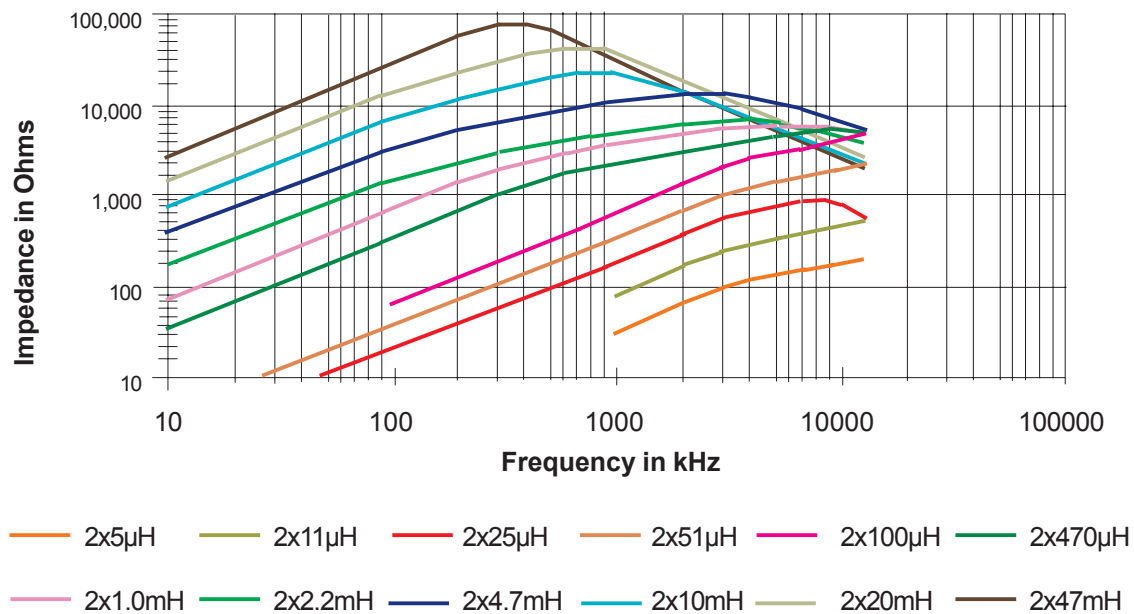
See following page for typical impedance curves

CMJ-2 Series • Impedance Performance

Impedance Performance CMJ-2 Series Double Chokes with Sector Winding



Impedance Performance CMJ-2 Series Double Chokes with Bifilar Winding



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