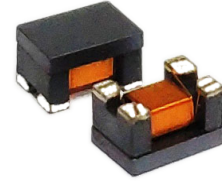


Common Mode Filters

For automobile signal line



FEATURE

- Compatible with an operating temperature range of -40 to $+105^{\circ}\text{C}$, so can be used for vehicle devices requiring compatibility with high temperatures.
- When mounting, the terminal and winding tape splicing part do not fuse.
- Which uses our unique technology, is a product that can achieve $\text{DCR} < 2\Omega @ 125 \text{ deg. C}$ by reducing the DC resistance while maintaining a high L-value of $51\mu\text{H}$.

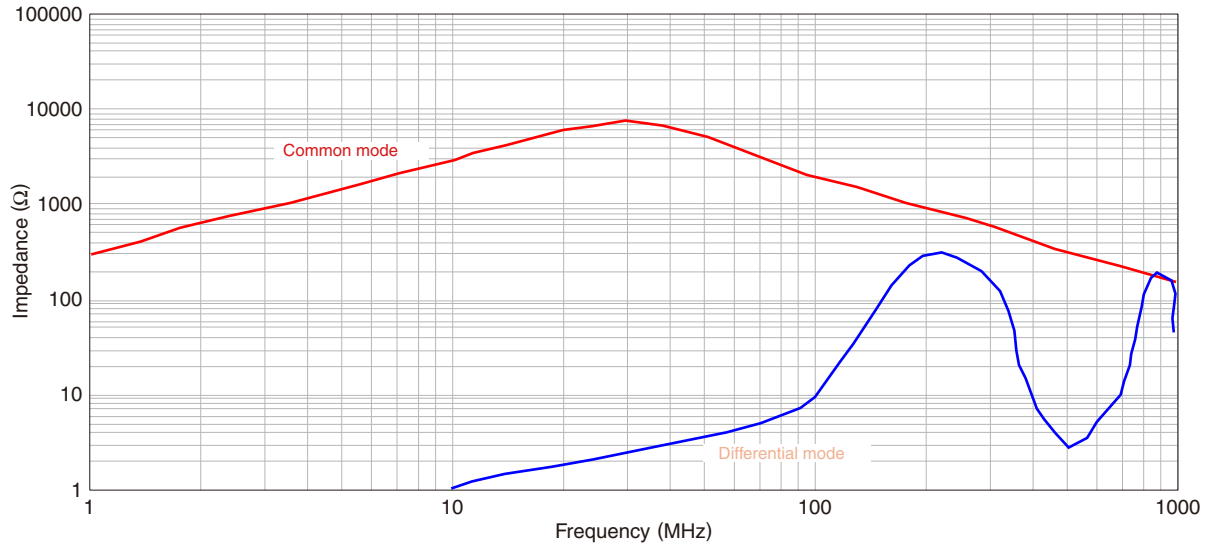
APPLICATIONS

- FlexRay system.

STANDARD ELECTRICAL SPECIFICATIONS

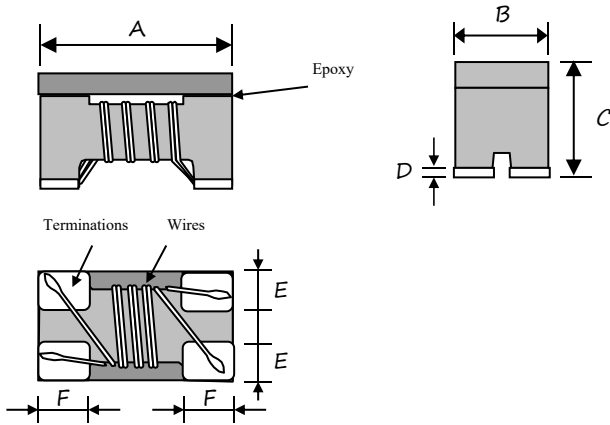
PART NUMBER	Common mode inductance [100kHz] (μH)+50/-30%	Rated voltage (V)max.	Rated current (mA)max.	DC resistance (Ω)max.	Insulation resistance (M Ω)min.
CMF2SMFWI510M	51	50	200	1.0	10

PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



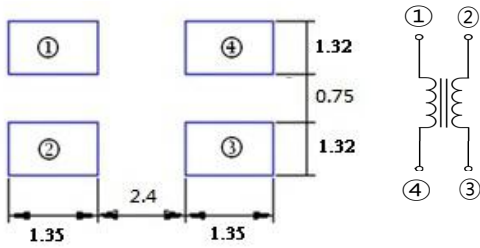
DIMENSIONS in inches [millimeters]

2.Dimension



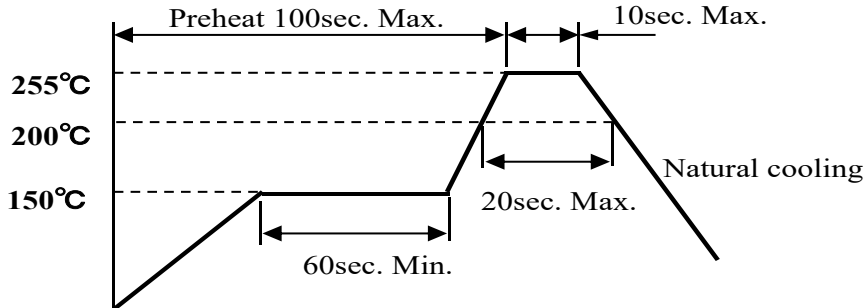
4532	Dimensions
A	4.5 ± 0.2
B	3.2 ± 0.2
C	2.8 ± 0.2
D	0.2 ± 0.1
E	1.2Typ.
F	1.0Typ.

Recommended Land Pattern
Unit: mm



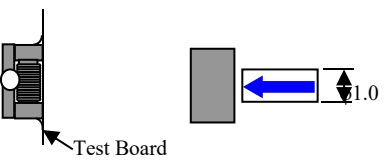
PIN NUMBER	DESCRIPTION
① ~ ④	DATA LINE
② ~ ③	DATA LINE

RECOMMENDED SOLDERING TEMP. GRAPH



ITEM P/N	CMF2SMFWI510M	TEST INSTRUMENT	4291B、4339B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

MECHANICAL RELIABILITY

TEST	Specification & Requirement		Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 90%		Solder heat proof: Preheating: 150 ±10°C 60 seconds Soldering: 245 ±5°C for 4 ±1 sec
Solder Heat Resistance	Components should have not evidence of electrical and mechanical damage Impedance: within ±15% of initial value		Preheating: 150°C 60secs Solder temperature: 260±5°C Flux: rosin Dip time: 10±0.5 secs
Terminal strength	Series No.	F (Kg)	Solder a chip to test substrate and then laterally apply a force in the arrow direction 
	1608	0.5	
	2012	0.5	
	3216	1.0	
	4532	1.0	