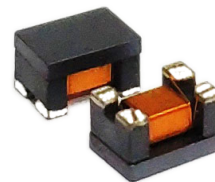


Common Mode Filters

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°C by reducing the DC resistance while maintaining a high L-value of $22\mu\text{H}$.

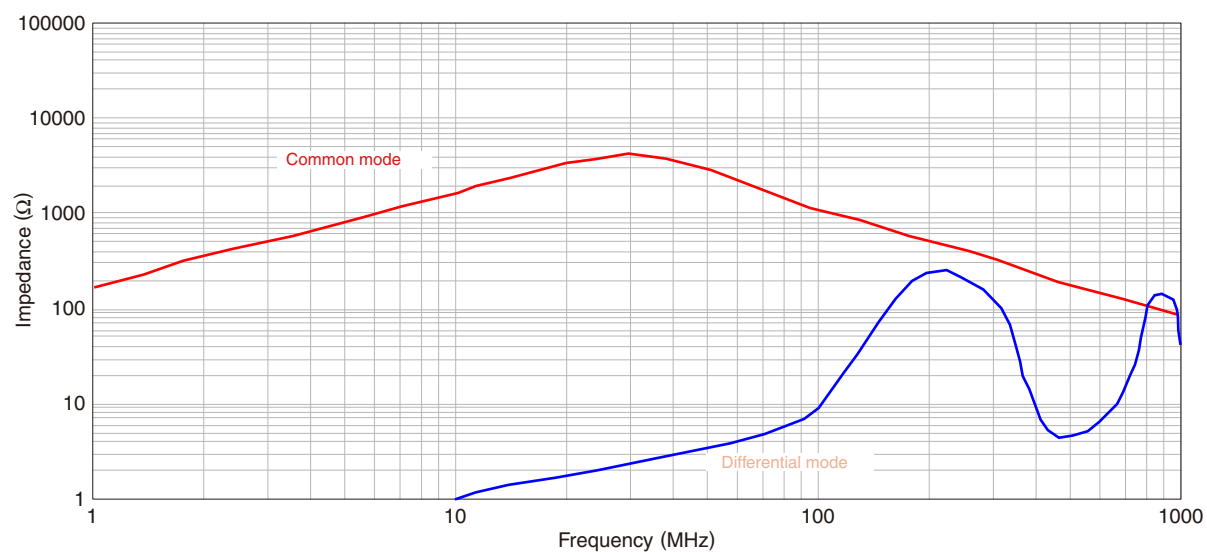
APPLICATIONS

- FlexRay system.

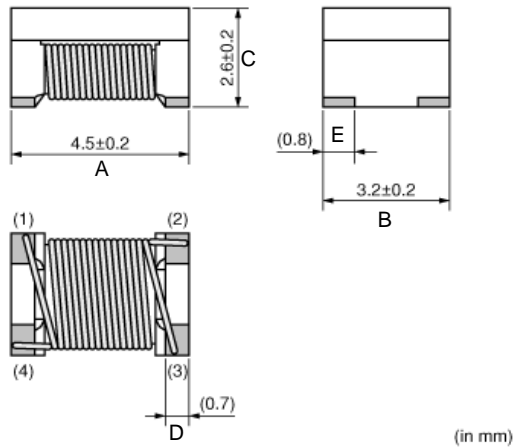
STANDARD ELECTRICAL SPECIFICATIONS

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.
CMF2SMFWI220M	22	50	250	1.0	10

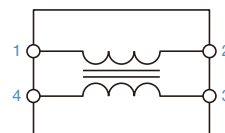
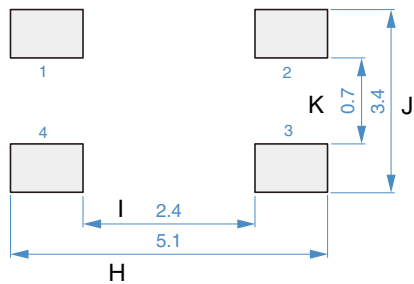
PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



DIMENSIONS in inches [millimeters]



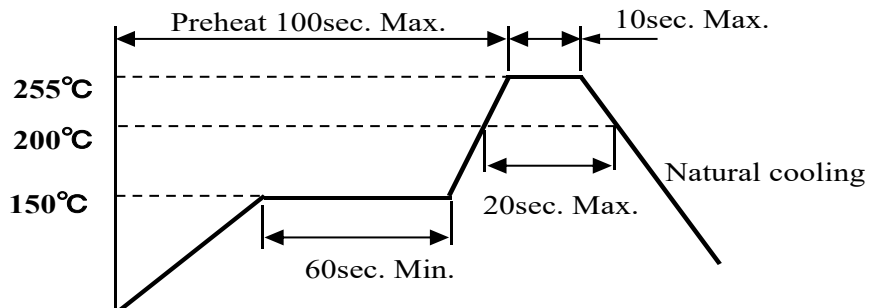
PART NUMBER	A	B	C	D	E
CMF2SMFWI220M	0.177 ± 0.008 [4.5 ± 0.2]	0.126 ± 0.008 [3.2 ± 0.2]	0.110 ± 0.008 [2.8 ± 0.2]	0.028 [0.7]	0.031 [0.8]



• No polarity

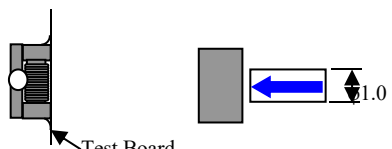
Dimensions in mm

PART NUMBER	H	I	J	K
CMF2SMFWI220M	5.1	2.4	3.4	0.7

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	