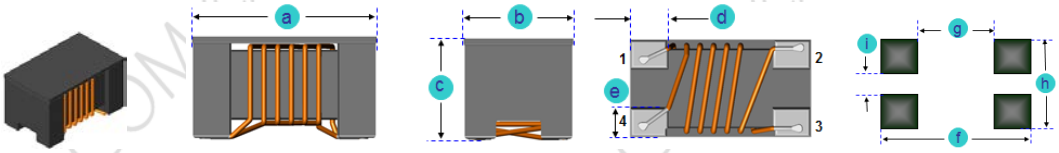
A. Electrical Specifications:

P/N	Impedance @100MHz (Ω)	DCR Max. (Ω)	Rated Current Max.(mA)	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance Min. (MΩ) @125Vdc
SCM2012F-670_-I	67	0.25	400	50	125	10
SCM2012F-900_-I	90	0.35	330	50	125	10
SCM2012F-121_-I	120	0.30	370	50	125	10
SCM2012F-181_-I	180	0.35	330	50	125	10
SCM2012F-261_-I	260	0.40	300	50	125	10
SCM2012F-371_-I	370	0.45	280	50	125	10
SCM2012F-601_-I	600	0.60	240	50	125	10

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i
SCM2012F-I	2.0 (0.079)	1.2 (0.047)	1.2 (0.047)	0.45 (0.018)	0.4 (0.016)	2.6 (0.102)	0.8 (0.031)	1.2 (0.047)	0.4 (0.016)
Tol.	±0.2 (0.008)	±0.2 (0.008)	±0.2 (0.008)	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. Schematic:

D. General Information:

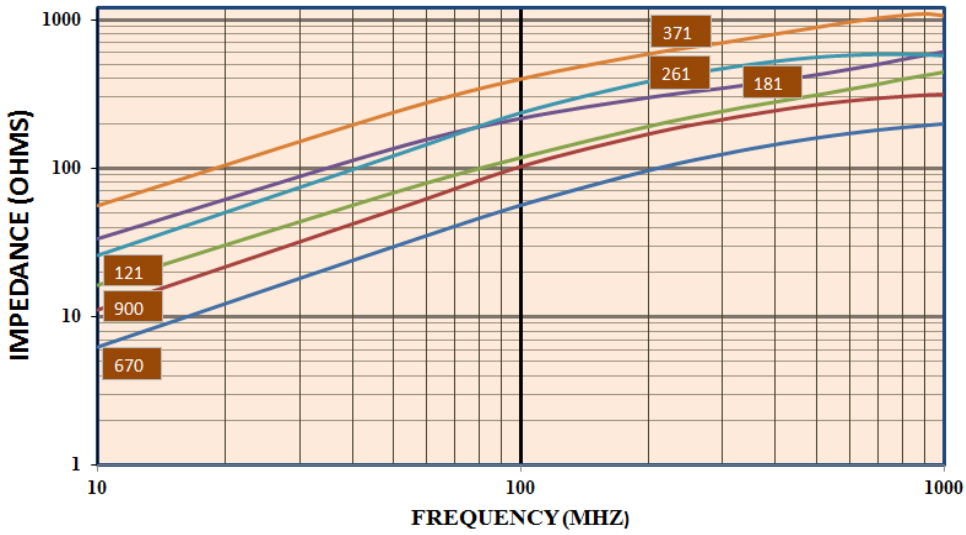
1. SCM2012F-xxx_-I, “SCM2012F” = P/N, “xxx” = Impedance, “_” = Tolerance, “-I” = Internal code.
2. Tolerance “_” : M: ± 20%
3. Small size, low profile
4. Maximum Temperature Rise: 15°C (when measured at 25°C ambient).
5. Impedance measured with HP4291B Impedance Analyzer
6. DCR measured using the 16502 milliohm meter.
7. Operating temperature: -40°C to +125ºC
8. Storage temperature: -40°C to +125ºC
9. Impedance and Current Range: From 67 Ohms (400 mA) to 600 Ohms (240 mA)
10. Unspecified values available on request.
11. MSL: Level 1.

E. Applications:

1. Common mode noise suppression of signal lines in high speed and high-density digital equipment, such as personal computers and peripherals.
2. Suitable for differential signal line such as USB2.0, IEEE1394 and LVDS, capable of high speed signal transmission without distortion due to its high coupling.

F. Characteristics Curve:

Impedance vs. Frequency (Common Mode)



Impedance vs. Frequency (Normal Mode)