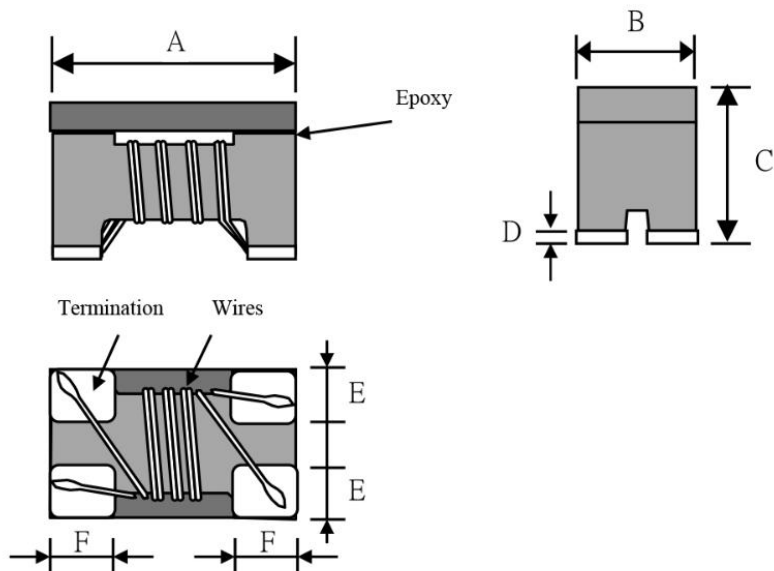


Common mode filter

◆ Dimensions(mm)



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

◆ Electrical Characteristics

P/N	Z (Ω)	DCR (Ω)	Rated Current	Rated Voltage	Insulation Resistance
	Common mode				
	Impedance	[MAX]	Idc(A)	Vdc	IR
	At 100MHz		[MAX]	(V)typical	(MΩ)Min
SMW4532B331ITE	330	0.090	1.5	50	10

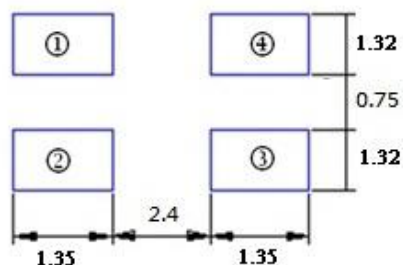
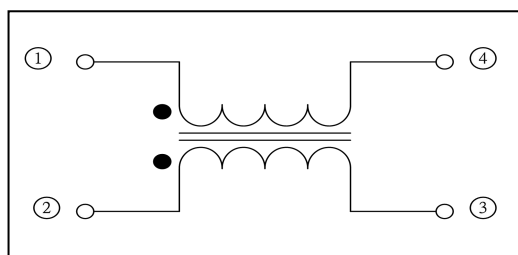
※ Operating temperature: -25 to +125°C

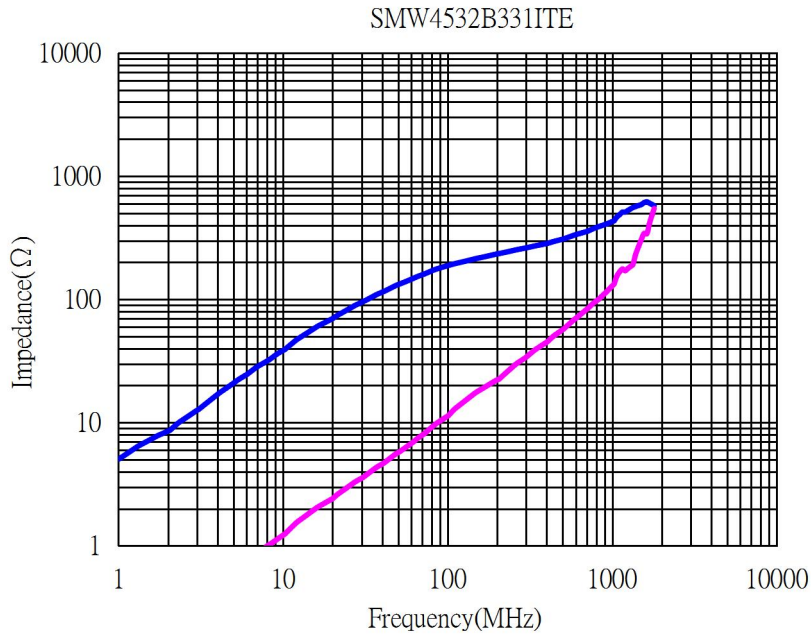
Storage temp. and humidity: -40 to +85°C ,70%RH max

Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk

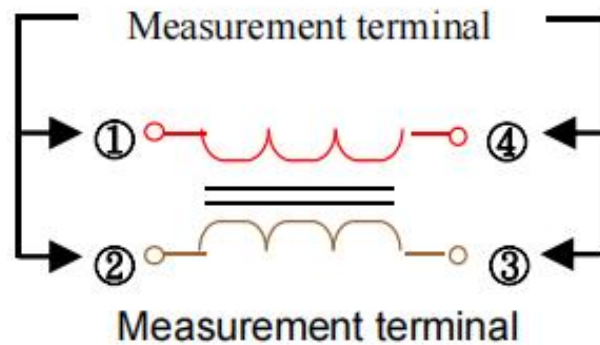
◆ Recommended Footprint (mm)



◆ Performance Curves

◆ Test Equipment

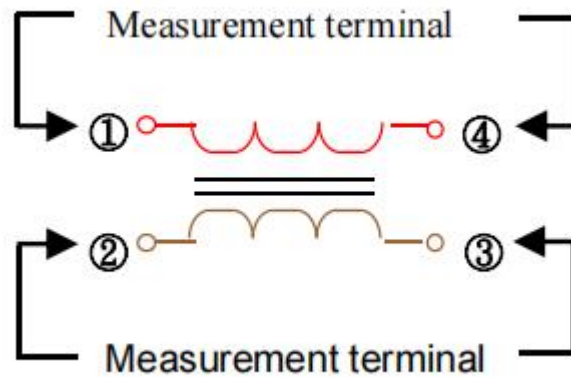
Impedance

Measured by using Agilent 4291A RF Impedance Analyzer.



DC Resistance

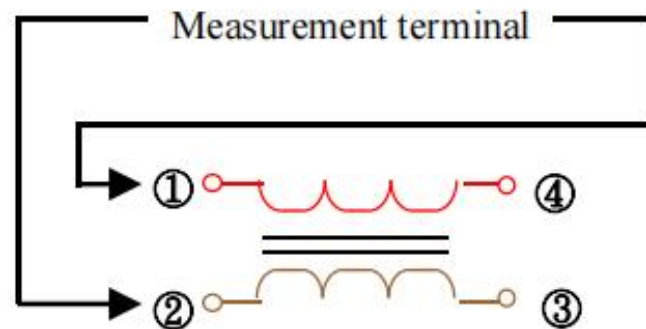
Measured by using Chroma 16502 mill ohm meter

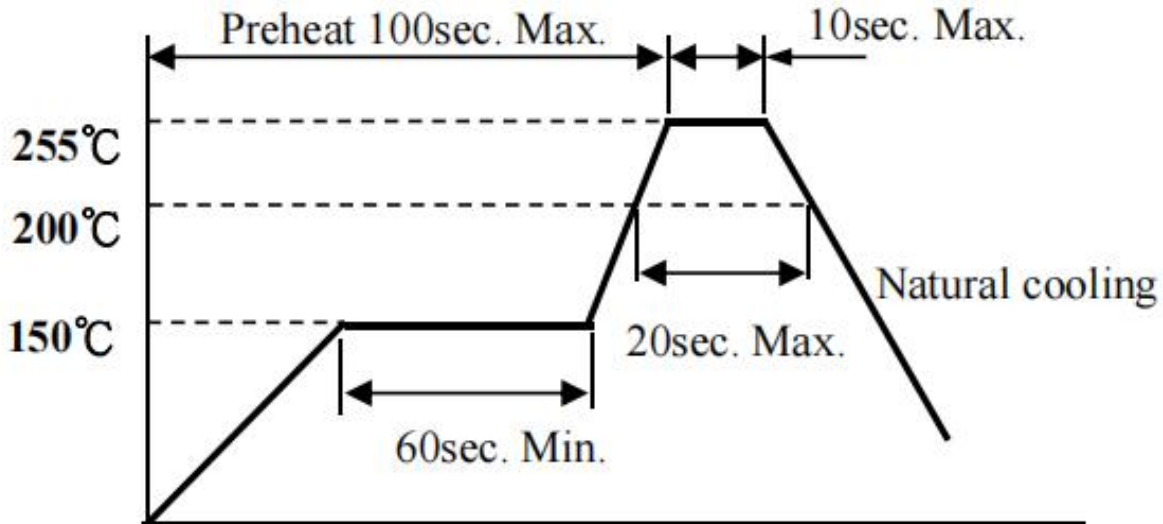


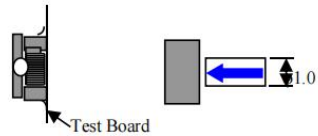
Insulation Resistance

Measured by using Chroma 19073

Measurement voltage : 50v , Measurement time : 60 sec.



◆ Recommended Soldering Temp.Graph

◆ 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	

◆ Endurance Reliability

TEST	Specification & Requirement	Method Used
Thermal Shock	Impedance change within $\pm 15\%$ Without mechanical damage	-65°C, (30 mins) -> room temp. (2 mins) -> 125°C, (30 mins) -> room temp. (2 mins) 50 cycles
Humidity Resistance	Impedance change within $\pm 15\%$ Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90% Duration: 168 hrs
Low Temp. Storing	Impedance change within $\pm 15\%$ Without mechanical damage	Storing Temp. -40 ± 2 °C for total 168 +5/-0 hours
High Temp. Storing	Impedance change within $\pm 15\%$ Without mechanical damage	Storing Temp. 125 ± 2 °C for total 168 +5/-0 hours

◆ Package

Size	1608 (0603)	2012 (0805)	3216 (1206)	4532 (1812)
Standard Packing Quantity (pcs / reel)	2000	2000	2000	500

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