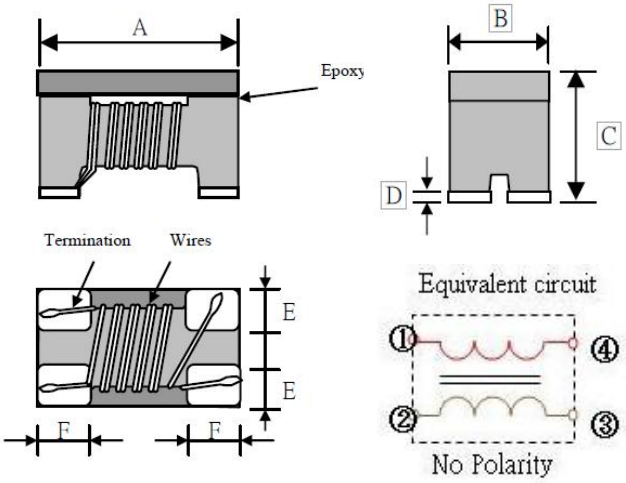
Common mode filter

DIMENSIONS



A	2.5±0.2
B	2.0±0.2
C	1.8±0.2
D	0.2±0.1
E	0.4±0.1
F	0.45±0.1

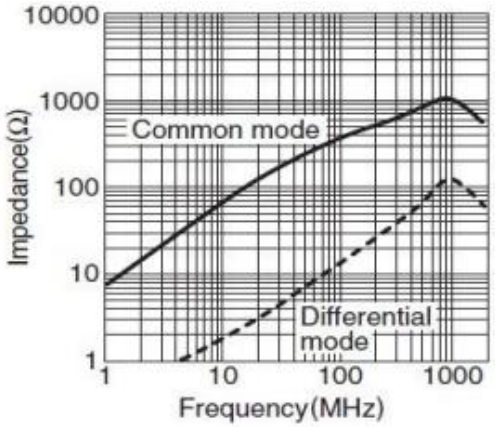
ELECTRICAL CHARACTERISTICS

P/N	Z（Ω）Common mode Impedance At° 100MHz	DCR(Ω) (Max)	Idc(mA) (Max)	Rated Voltage VDC (V)Typical	Insulation Resistance IR (MΩ) Min
SMW2520S301ATT	250min （300Typ）	0.35	400	20	10
SMW2520S601ATT	450min （600Typ）	0.45	300	20	10
SMW2520S102ATT	750min （1000Typ）	0.9	200	20	10

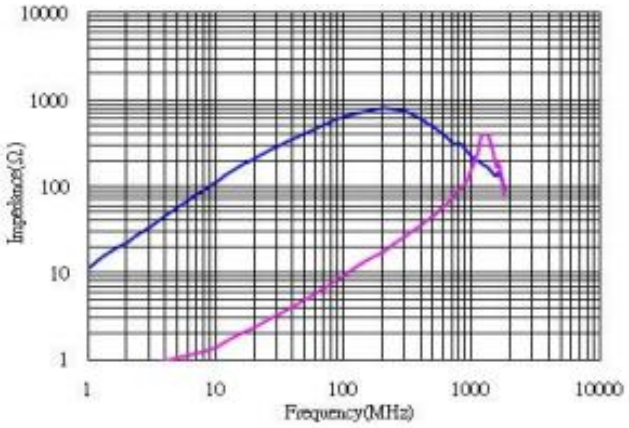
Operating temperature : -25 to +85℃
Storage temp and humidity : -40 to +85℃ , 70%RH max
Typical Heat Rating DC Current would cause an approximately △T of 40℃
If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk

◆ PERFORMANCE CURVES

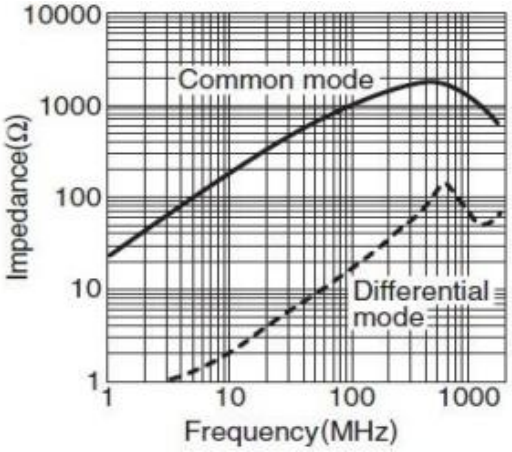
SMW2520S301ATT



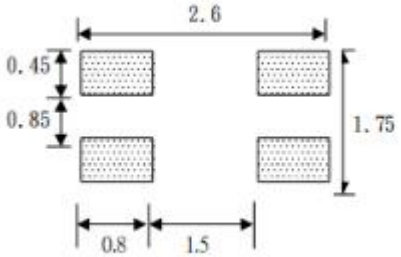
SMW2520S601ATT



SMW2520S102ATT

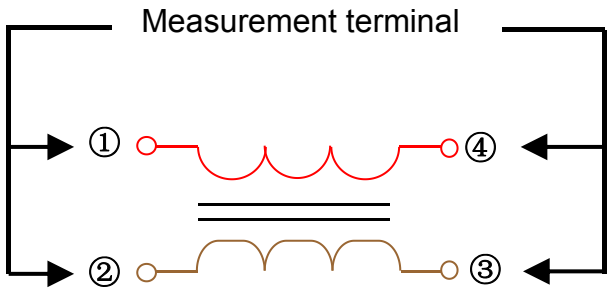


Recommended Soldering Conditions (Please use this product by reflow soldering)
Recommended Footprint(mm)

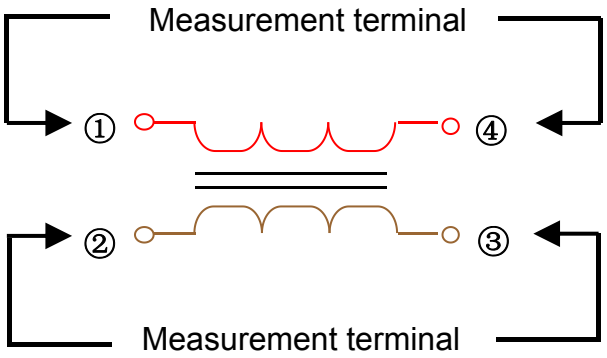


◆ Test Equipment

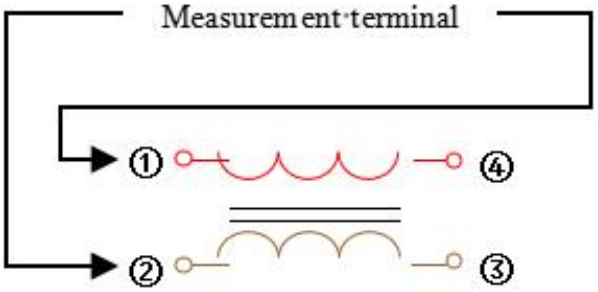
Impedance / Inductance
Measured by using Agilent 4291A RF Impedance Analyzer.



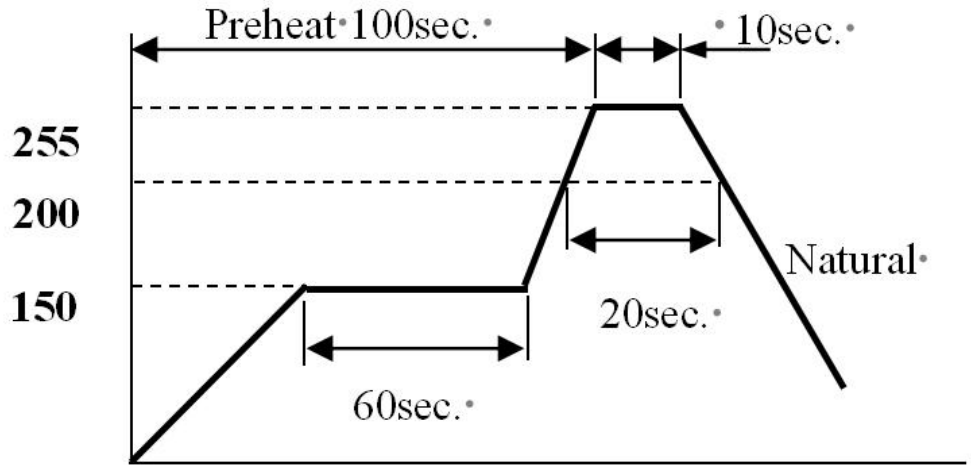
DC Resistance
Measured by using Chroma 4338 mill ohm meter.



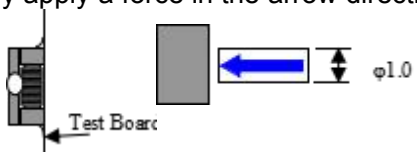
Insulation Resistance
Measured by using Chroma 19073
Measurement voltage : 50v ,Measurement time : 60 sec



RECOMMENDED SOLDERING TEMP. GRAPH



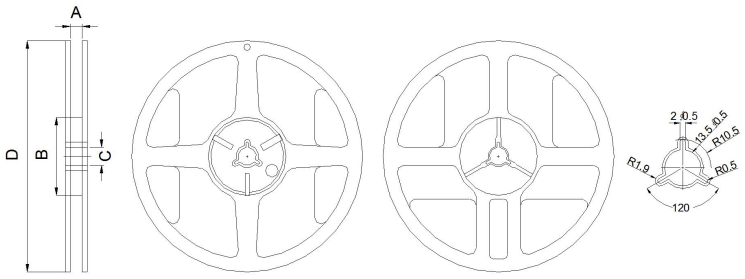
MECHANICAL RELIABILITY

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℃60 seconds Soldering: 245 ±5℃for 4 ±1 sec
Solder Heat Resistance	Components should have not evidence of electrical and mechannical damage Impedance:within ±15% of initial value		Preheating:150℃ 60secs Solder temperature: 260±5℃ 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	
	2520	0.5	
	3216	1.0	

ENDURANCE RELIABILITY

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

◆ Reel Dimension & Tape Dimension



7"x8mm 7"x12mm

Type	A(mm)	B(mm)	C(mm)	D(mm)	Packaging Quantity
7”x8mm	9.0±0.5	60±2	13.5±0.5	178±2	2000
7”x12mm	13.5±0.5	60±2	13.5±0.5	178±2	2000