

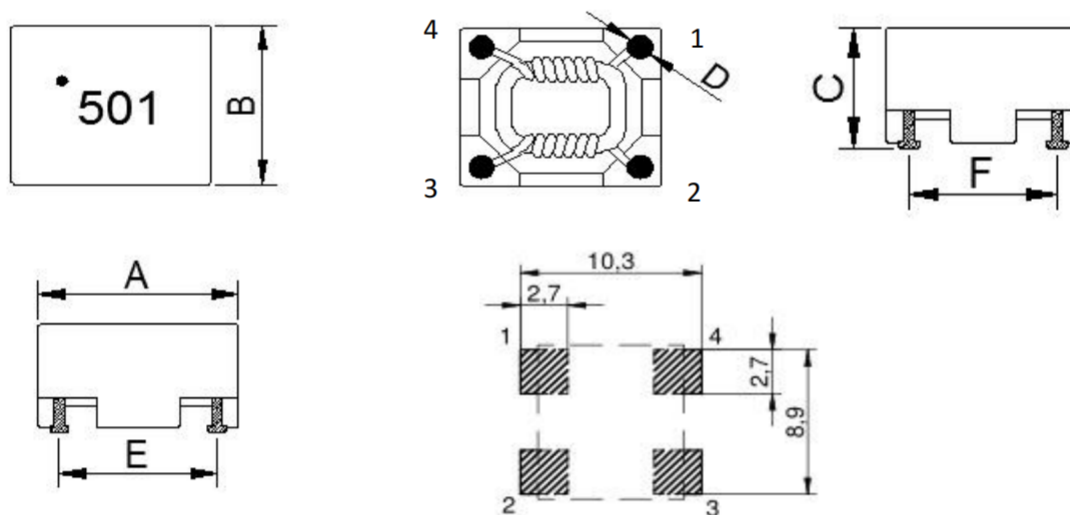
Common mode filter

◆ ORDERING CODE:

SMW 1005 S 501 N T T
(1) (2) (3) (4) (5) (6) (7)

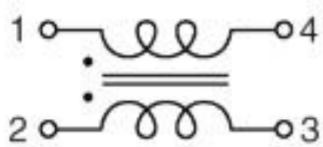
- (1): Series Type
 (2): Chip Size(mm):Length X Width
 (3): Material Type
 (4): Nominal Impedance:501=500 Ω 102=1000 Ω
 (5): Internal Code
 (6): Company Code
 (7): Packaging: T: Taping&Reel

◆ DIMENSION (:mm)



A	B	C	D	E	F
9.5 $\pm$ 0.3	8.3 $\pm$ 0.3	5.3 Max	Φ 1.2 Typ	7.5 Typ	6.3 Typ

◆ SCHEMATIC:



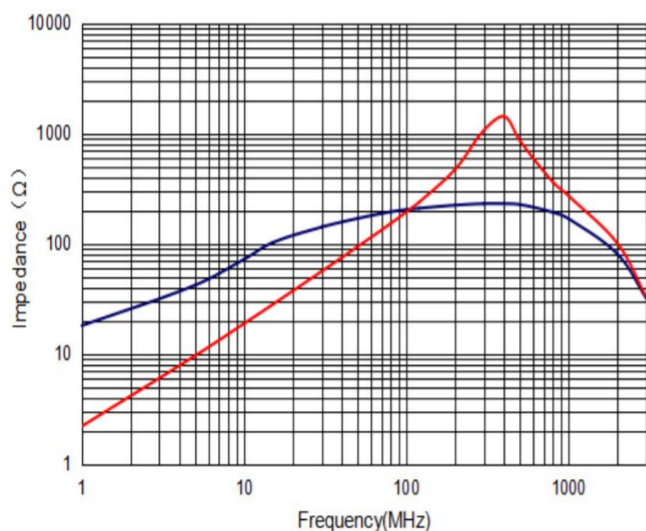
◆ ELECTRONUC CHARACTERISTICS

P/N	Impedance @100MHz (Ω) TYP	Inductance 1-4=2-3 @100KHz/ 0.1V Typ	Ls L1-4(2 -3short) @1MHZ/ 1mA Typ	DC Resistance 1-4=2-3 (mΩ)Max	Rated Current (A) Max	Rated Voltage (V) Max	Hi-Pot 1,4-2,3 (Vdc) 3mA/1S
SMW1005S201PTT	200.0±25%	2uH	450nH	5.0	7.0	80	500
SMW1005S501NTT	500.0±25%	5uH	570nH	6.5	5.0	80	500
SMW1005S801LTT	800.0±25%	9uH	970nH	11.0	3.5	80	500
SMW1005S102LTT	1000.0±25%	11uH	1300nH	30.0	2.5	80	500
SMW1005S222LTT	2200.0±25%	30uH	3500nH	60.0	1.4	80	500

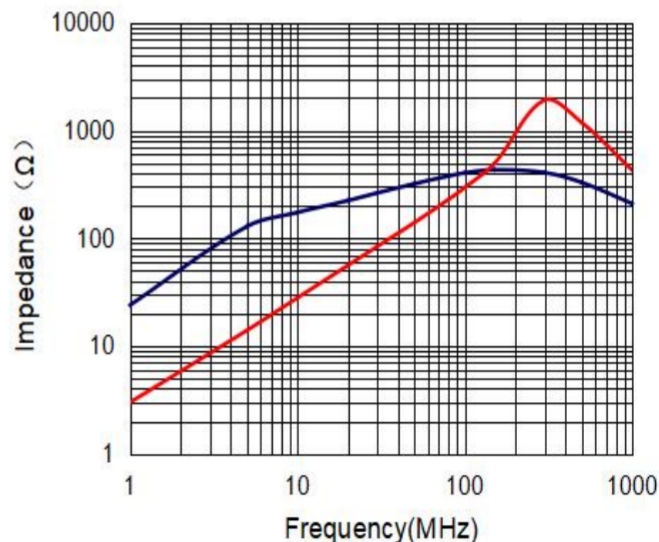
Note:

- (1).Rated Current: Temp.rise 40°C Typ
- (2).Operating Temperature: -40°C up to +105°C
- (3).Storage Temperature: 15°C up to 25°C, 65% RH max.
- (4).The temperature of electrical characteristic test is 25°C indoor temperature

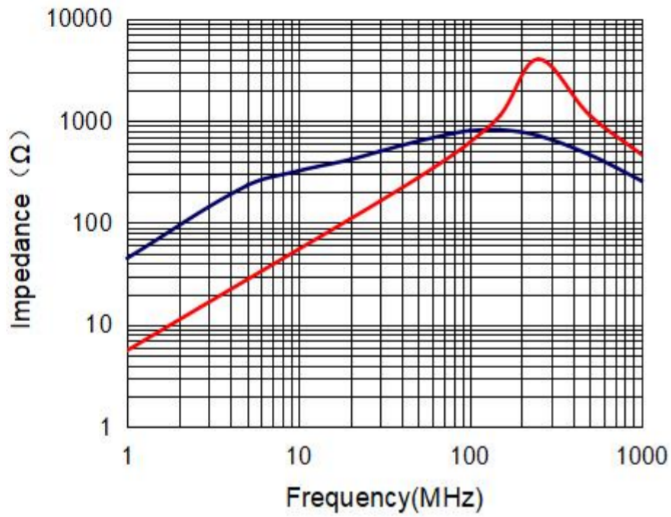
◆ CHARACTERISTICS REFERENCE



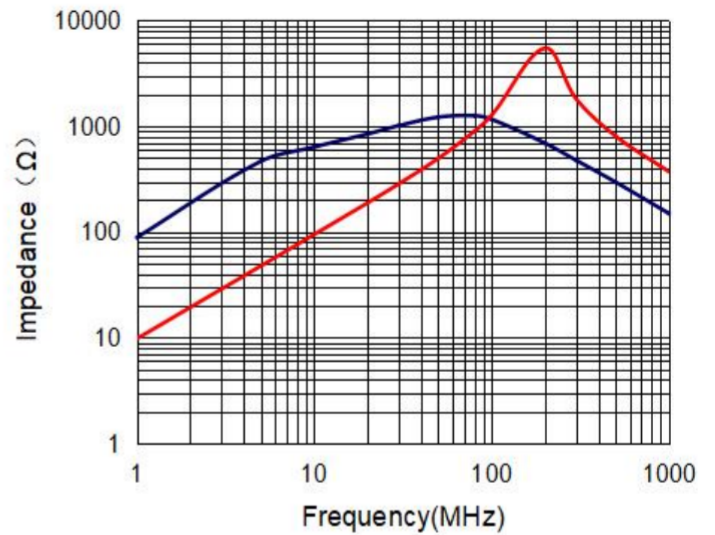
SMW1005S201PTT



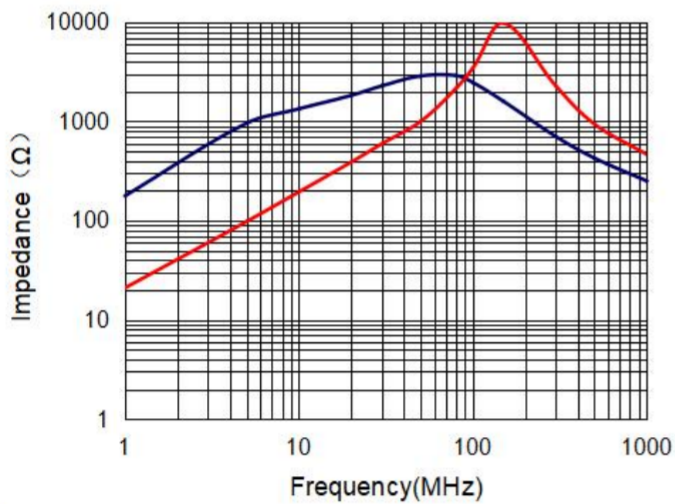
SMW1005S501NTT



SMW1005S801LTT

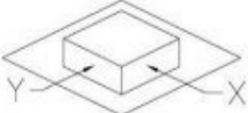


SMW1005S102LTT



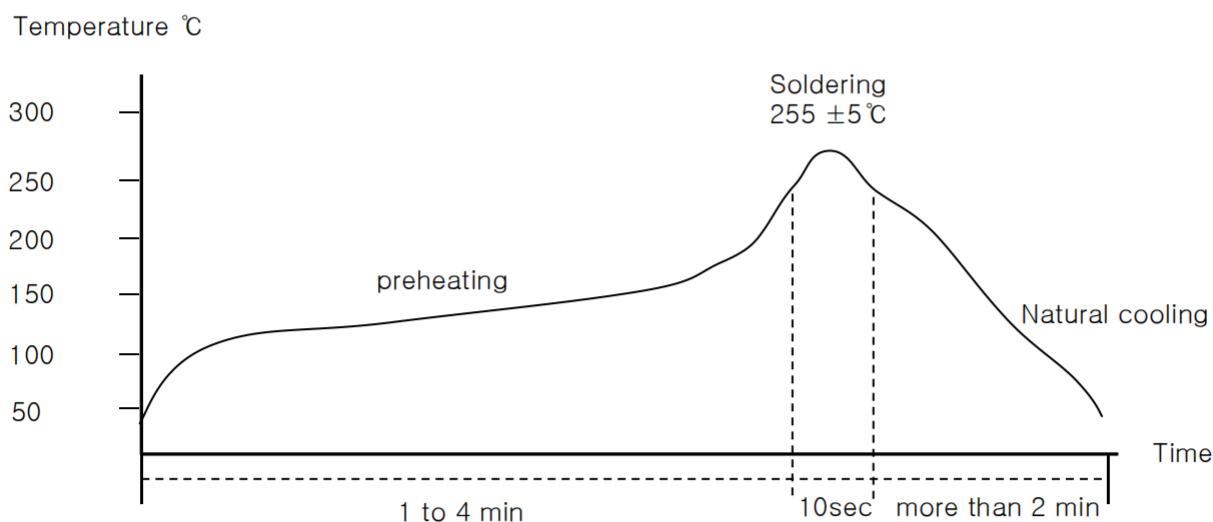
SMW1005S222LTT

◆ RELIABILITY TESTING

Operating Temperature	- 40 to +125 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 10 MΩ at 50V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 1mA for 3S between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C (- 40~ + 125 °C)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition

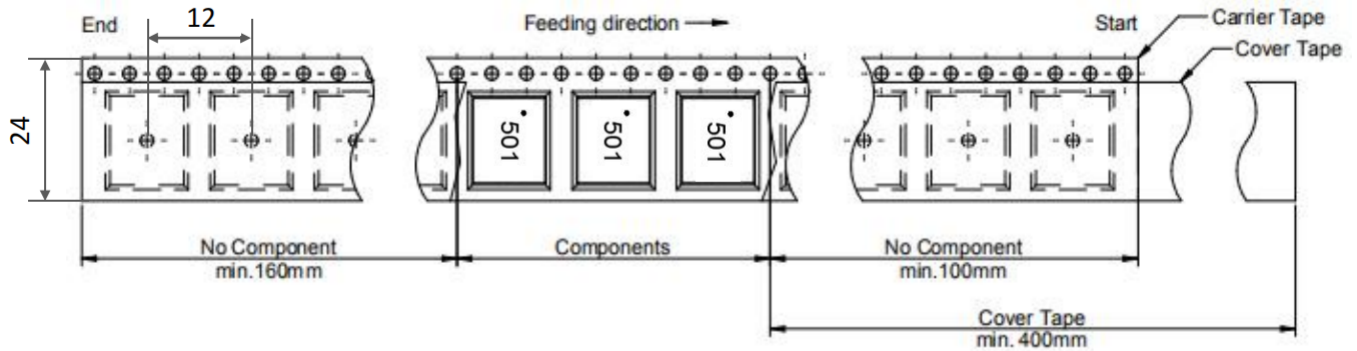
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

IR Reflow profile

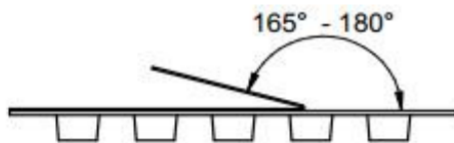


Temperature and humidity . After that , no mechanical and electrical defect should be found .

◆ PACKING SPECIFICATIONS



Transparent carrier and cover tape



Tape width	Distance	Pull-of force
24 mm	12mm	20~130g

PACKING:1000PCS/Reel