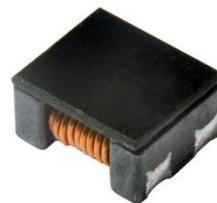


Common mode filter

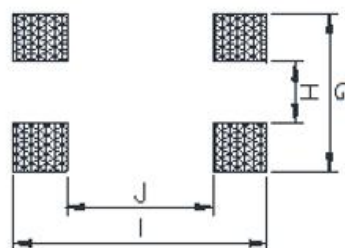
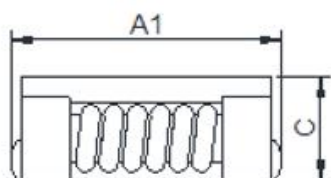
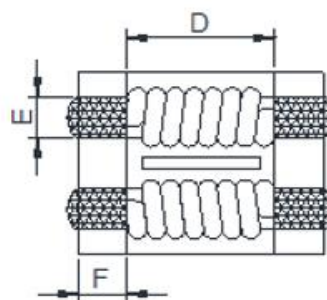
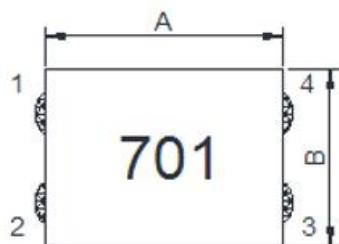
◆ ORDERING CODE:

SMW 4520 S 102 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:900=90 Ω 102=1000 Ω
 (5): Internal Code
 (6): Company Code
 (7): Packaging: T: Taping&Reel

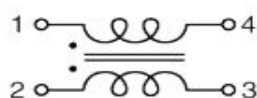


◆ DIMENSION (:mm)



A	A1	B	C	D	E	F	K	H	I	J
4.7 ± 0.5	5.2 ± 0.5	4.5 ± 0.5	2.3 Max	2.7 Typ	0.8 Typ	1.0 Typ	3.0 Typ	1.0 Typ	6.0 Typ	2.0 Typ

◆ SCHEMATIC:

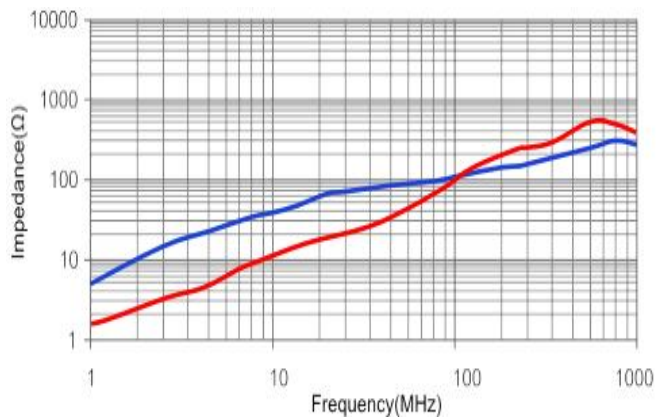


◆ ELECTRONUC CHARACTERISTICS

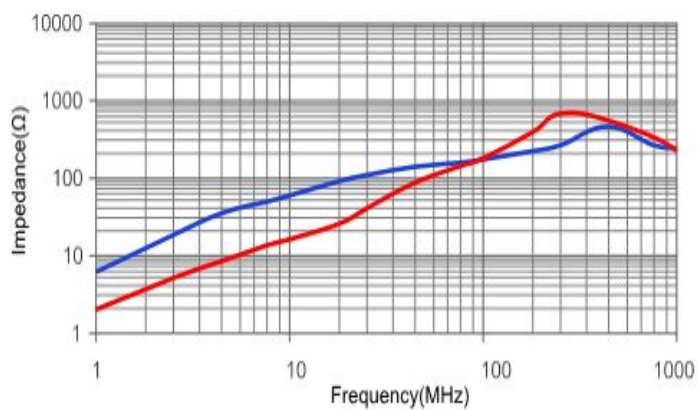
Part Number	Impedance (Ω) @100MHz		DC Resistance (m Ω)Max	Rated Current (A)Max	Rated Voltage (Vdc)Max	Insulation Resistance 50V/3S (M Ω)Min
	MIN	TYP				
SMW4520S900NTT	60	90	35.0	3.2	50	10
SMW4520S151NTT	90	150	40.0	3.1	50	10
SMW4520S231NTT	180	230	45.0	3.0	50	10
SMW4520S301NTT	200	300	45.0	3.0	50	10
SMW4520S421NTT	350	420	50.0	2.5	50	10
SMW4520S501NTT	300	500	55.0	2.4	50	10
SMW4520S701NTT	500	700	59.0	2.2	50	10
SMW4520S901NTT	650	900	68.0	2.1	50	10
SMW4520S102NTT	800	1000	68.0	2.1	50	10
SMW4520S122NTT	1000	1200	74.0	2.0	50	10
SMW4520S142NTT	1200	1400	81.0	1.9	50	10

◆ CHARACTERISTICS REFERENCE

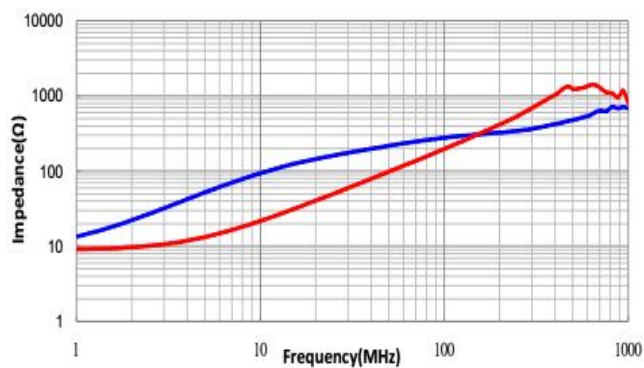
SMW4520S900NTT



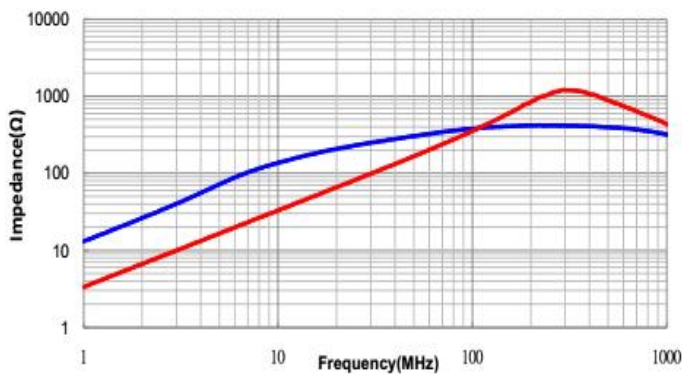
SMW4520S151NTT



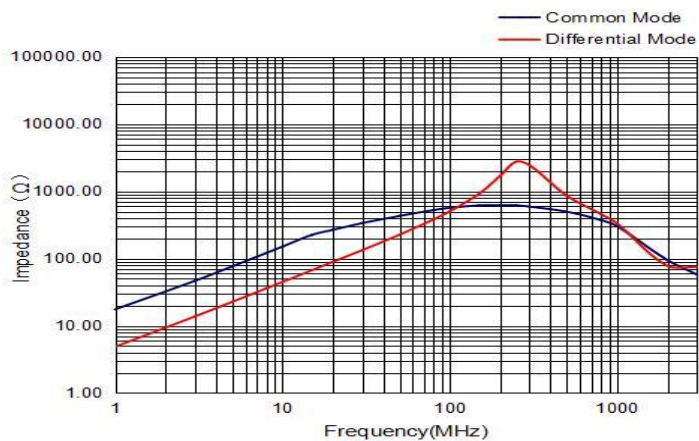
SMW4520S231NTT/ SMW4520S301NTT



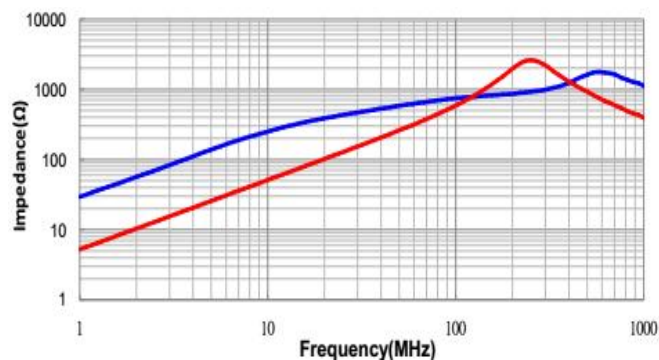
SMW4520S421NTT



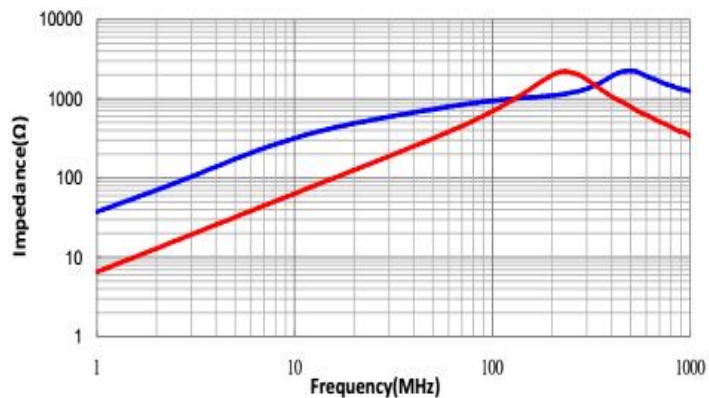
SMW4520S501NTT



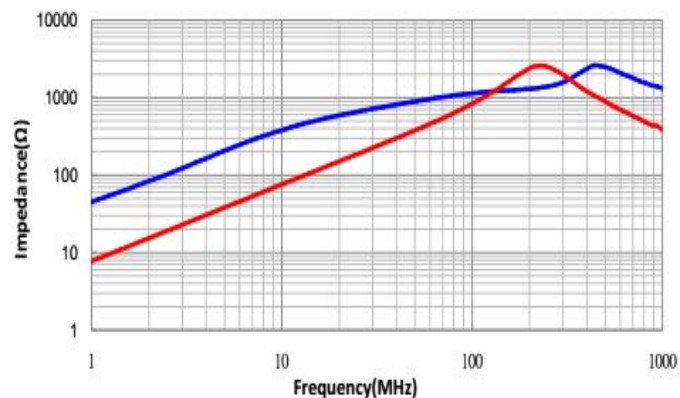
SMW4520S701NTT



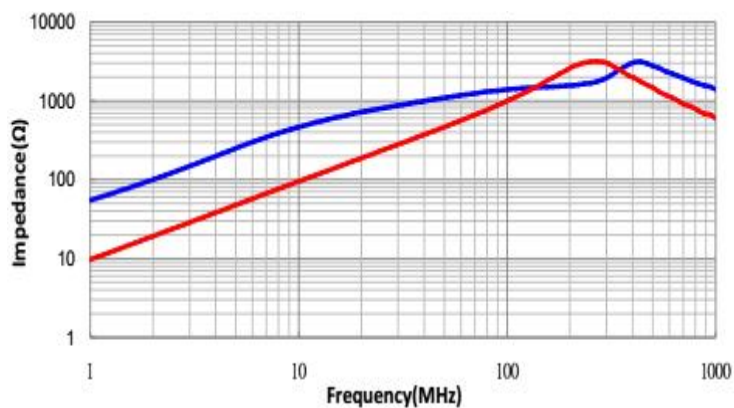
SMW4520S901NTT/SMW4520S102NTT



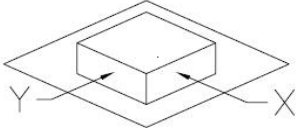
SMW4520S122NTT



SMW4520S142NTT

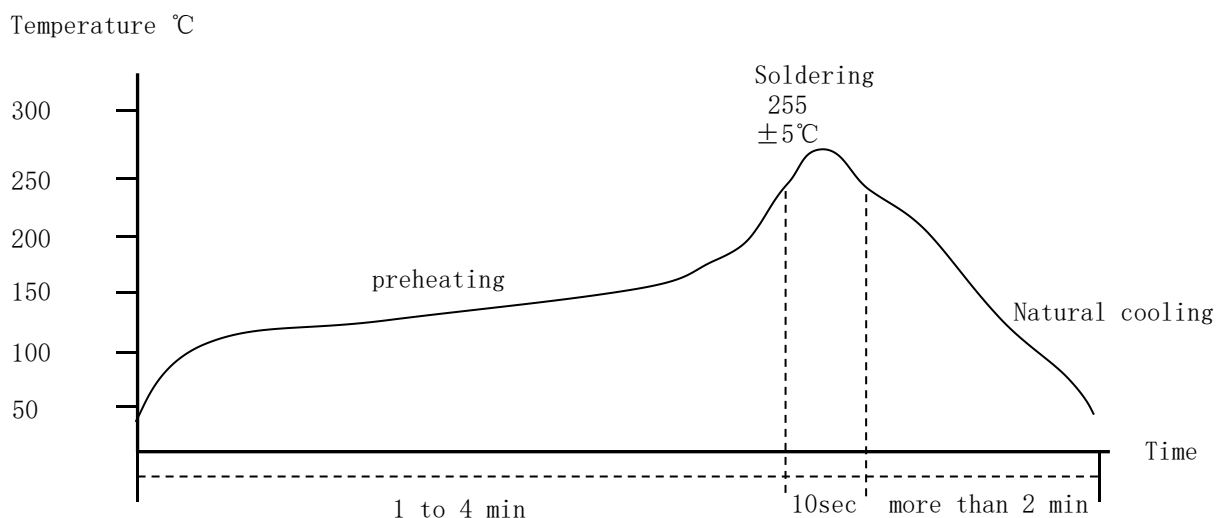


◆ RELIABILITY TESTING

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

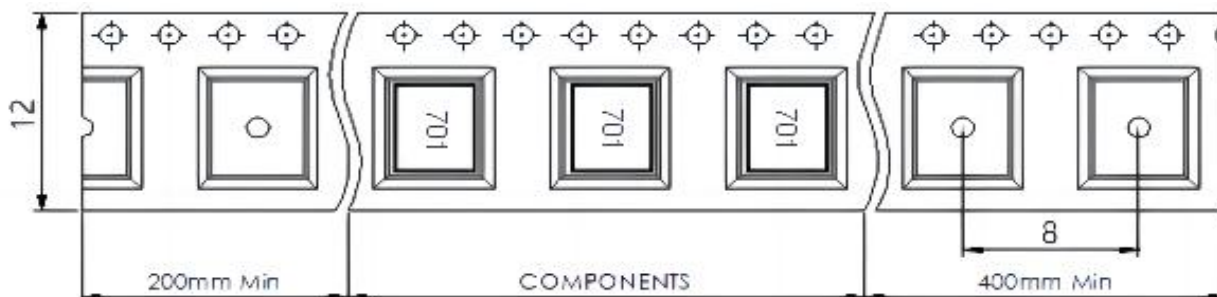
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

IR Reflow profile

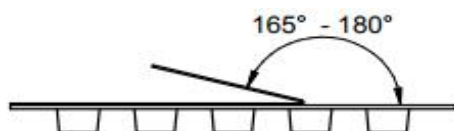


Temperature and humidity . After that , no mechanical and electrical defect should be found .

◆ PACKING SPECIFICATIONS



Transparent carrier and cover tape



Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g