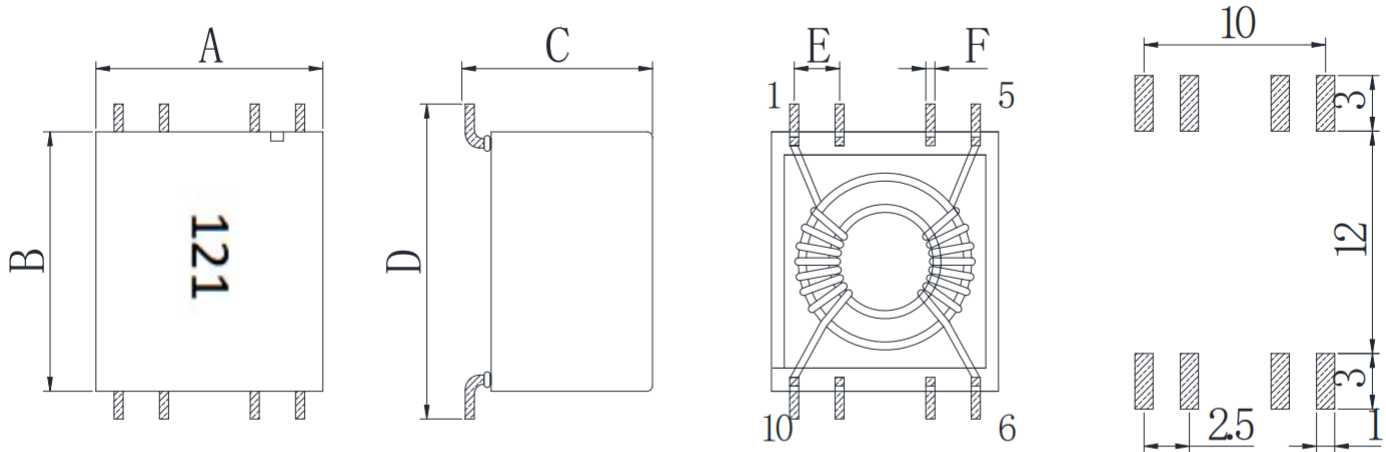


Common Mode Line Filter

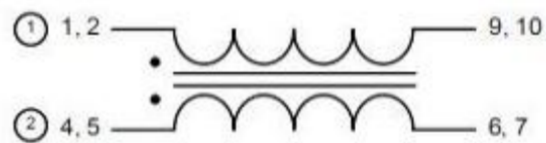
◆ DIMENSIONS:mm



PAD Layout

A	13.0 Max
B	14.5 Max
C	11.0 Max
D	18.0 Max
E	2.5±0.3
F	0.5±0.1

SCHEMATIC:



◆ Lead Free Part Numbering

SMW 1810 S 121 N T T
(1) (2) (3) (4) (5) (6) (7)

(1).Series Type

(2).Dimension

(3).Material Code

(4).Inductance: 121=120uH

(5).Inductance Tolerance: N=±30%

(6).Company Code

(7).Packaging: Tape&reel

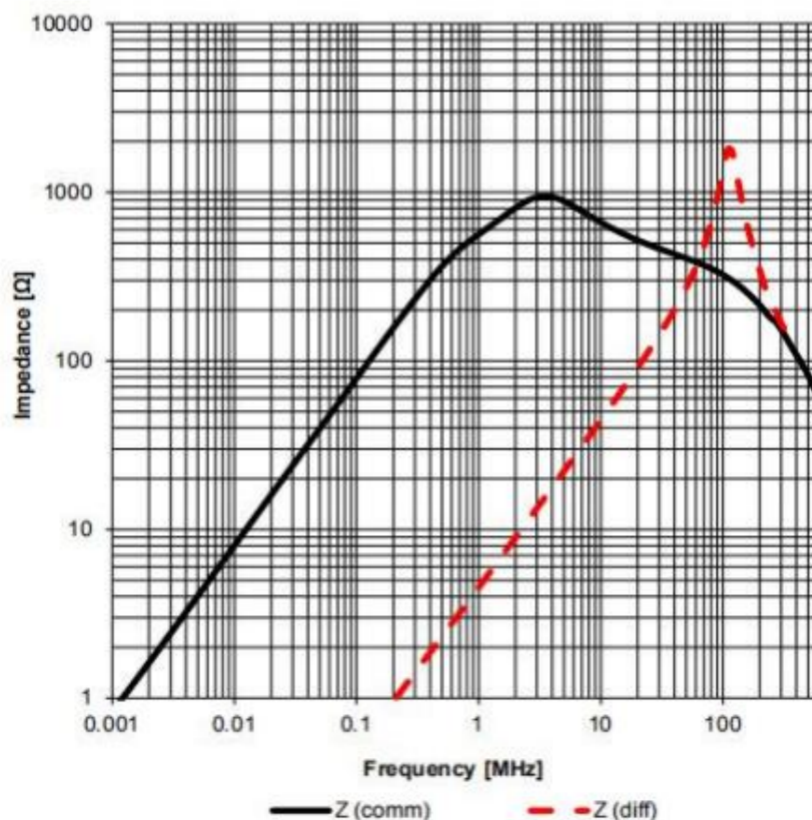
◆ **ELECTRICAL CHARACTER:**

Part Number	Inductance L1=L2(uH) @10KHz/ 0.05V	DC Resistance (mΩ) Max.	Rated Current (A)Max.	Hi-Pot (Vac) 3mA/1S	Rated Voltage (V) Typ	Impedance (Ω) Max.
SMW1810S121NTT	120 ±30%	10.5	5.5	500	80	950Typ

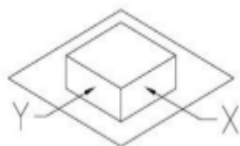
GENERAL SPECIFICATION:

- (1).RatedCurrent: Temp.rise 40°C Typ
- (2).Operating Temperature (Self-temperature rise is included): -40°C to +125°C
- (3).Storage Temperature: 15°C up to 25°C, 65% RH max.

◆ **CHARACTERISTICS(REFERENCE):**

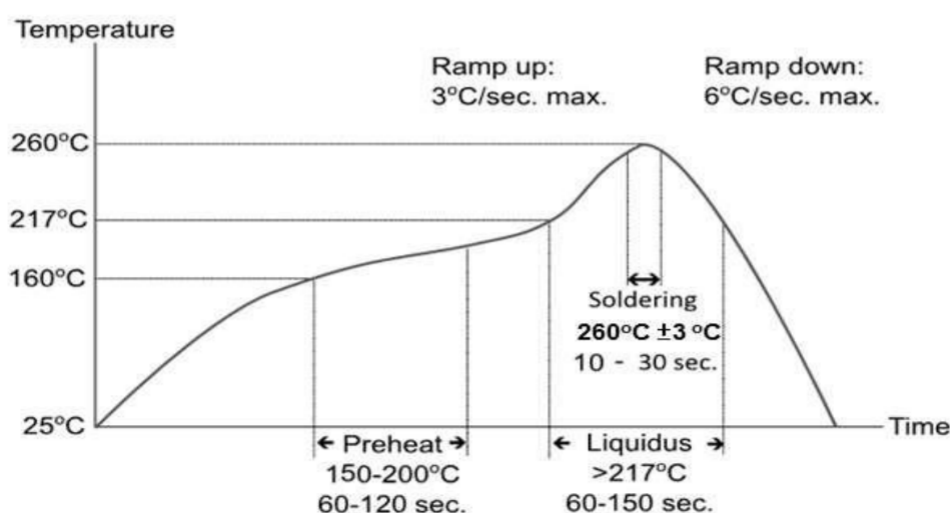


◆ RELIABILITY TESTING:

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 3mA for 1S between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / (- 40 ~ + 125°C)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 and 1 hours drying under normal condition

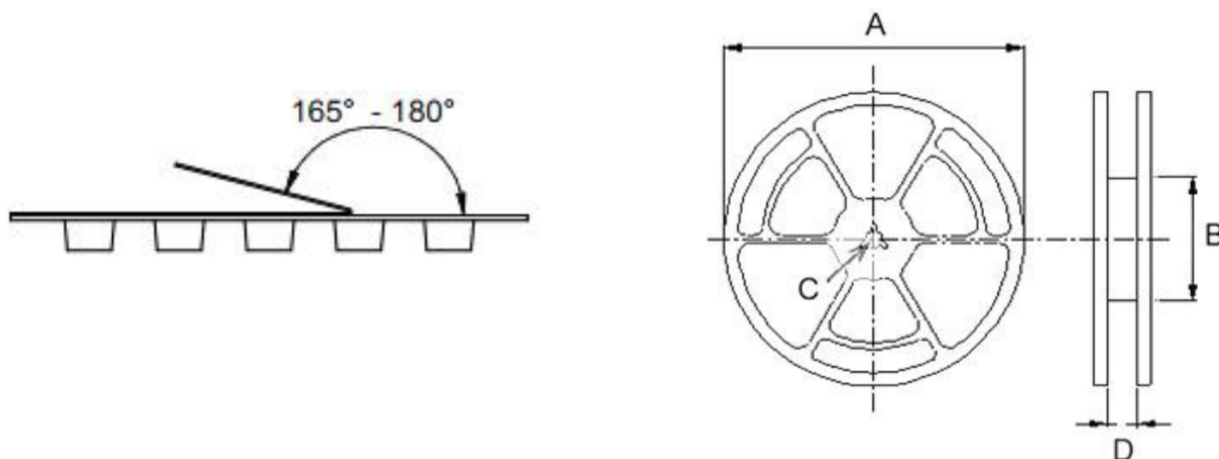
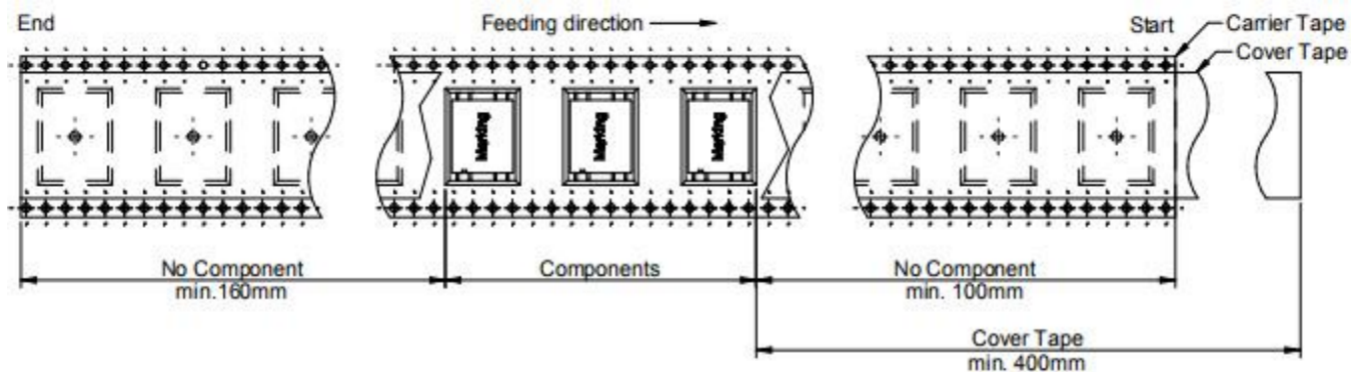
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

IR Reflow profile



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

◆ PACKING INFORMATION:



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	32.5	250

Tape width	Distance	Pull-of force
32mm	20mm	10~120g