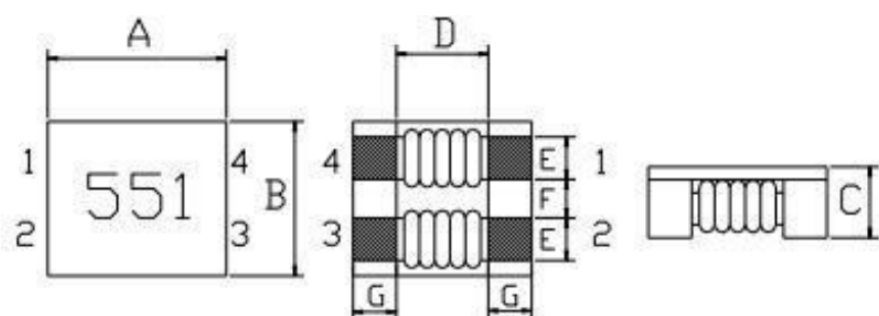
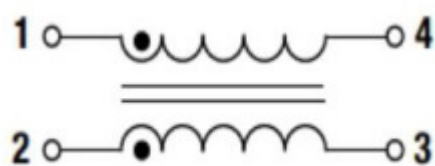


DIMENSION ( UNIT : mm)



A	15.0±0.5
B	13.0±0.5
C	6.0Max
D	10.4Typ
E	2.7±0.2
F	3.8±0.2
G	2.3±0.2

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTIC							
P/N	Z(Ω) @100MHz		RDC (mΩ) Max	Rated Current (A) Max	IR (MΩ) Min	Rated Voltage (V) Max	Mark
	Min	Typ					
SMW1513S301XTT	250	300	5	13.0	10	80	301
SMW1513S551UTT	450	550	6	10.0	10	80	551
SMW1513S701UTT	500	700	7	10.0	10	80	701

测试仪器：

Z ( Q ) : HP4395A

RDC ( Q ) : CH502BC

Rated Current ( A ) : CH1062A+CH1320

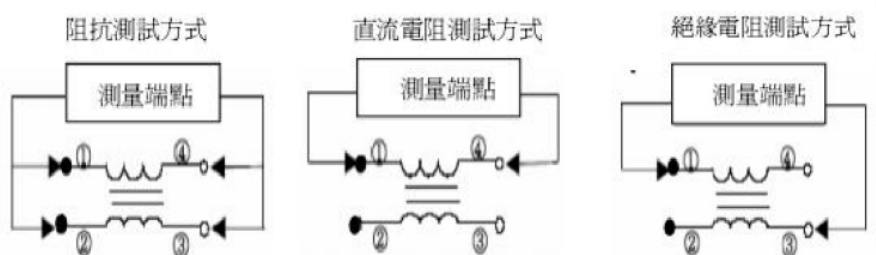
IR ( MQ ) : CH19073

Rated Voltage ( V ) : CH9052

注意事项

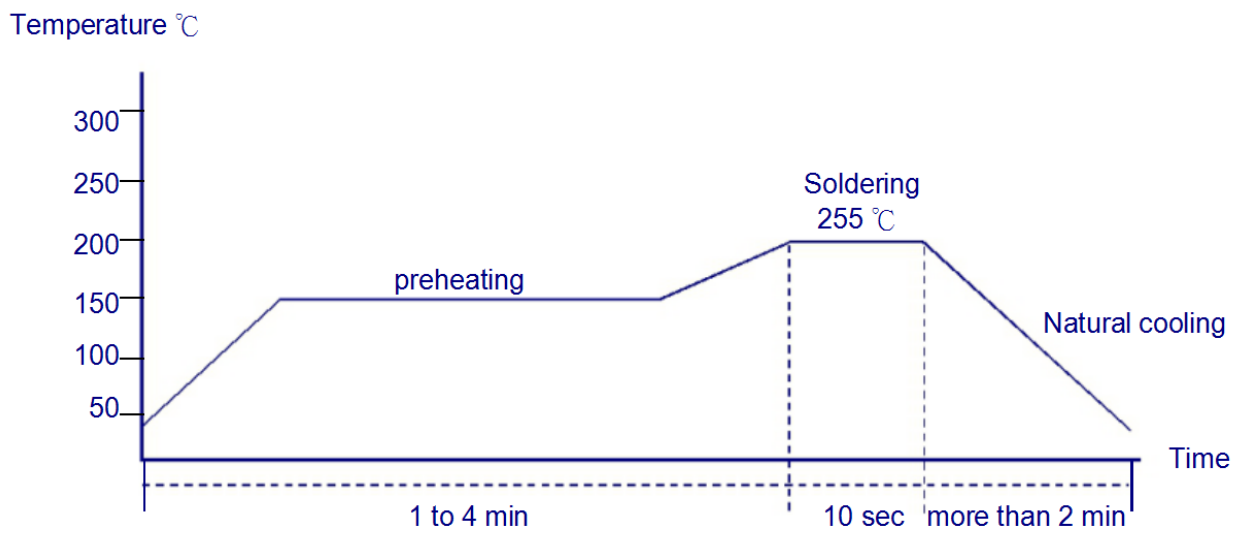
1.平贴度为 0.10mmMax.

2.特性测试方法

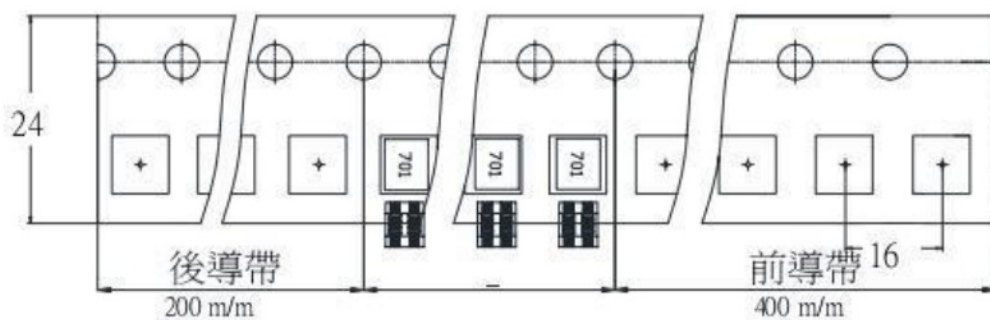


**RELIABILITY TEST**

Test Items	Test Conditions	Criteria
1. Low temperature storage	Placed at $-40^{\circ}\text{C}$ for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within $\pm 10\%$ of the initial value.
2. High temperature storage	Placed at $+125^{\circ}\text{C}$ for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within $\pm 10\%$ of the initial value.
3. Thermal shock	$-40^{\circ}\text{C}$ , 30min. $\sim$ $+125^{\circ}\text{C}$ , 30min., 500hours	Inductance shall be within $\pm 10\%$ of the initial value.
4. Humidity resistance	Placed at 90 to 95%RH, $+50^{\circ}\text{C}$ for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within $\pm 10\%$ of the initial value. Insulation resistance $> 100\text{Mohm}$ at DC
5. Drop	Drop specimen three times on concrete floor from a height of 1 meter which mounted on test board.	Inductance shall be within $\pm 10\%$ of the initial value.
6. Vibration	Frequency: 10~500Hz Amplitude: 1.5mm or 10G Sweep time: 1oct/min Test Directions: X,Y,Z Test Time: 2 hours each direction	Inductance shall be within $\pm 10\%$ of the initial value.
7. Terminal strength	Add static load 4.9N (500gf) to inductor through hole of test board for $10 \pm 2$ sec.	No detachment of terminal pin and no breakage of wire.
8. Soldering heat resistance	Dip inductor's terminal in solder bath of following conditions: 1) $260 \pm 5^{\circ}\text{C}$ , $10 \pm 1$ sec, 2) $350 \pm 10^{\circ}\text{C}$ , $3.5 \pm 0.5$ sec	Inductance shall be within $\pm 10\%$ of the initial value. Appearance: No damage

**REFLOW-PROFILE**

PACKAGING



起始字需对准定位孔, 印字仅供参考

Transparent carrier and cover tape/透明載帶和覆蓋帶

Adhesive strength of cover tape is 20 to 120 gf

The conduction band direction

