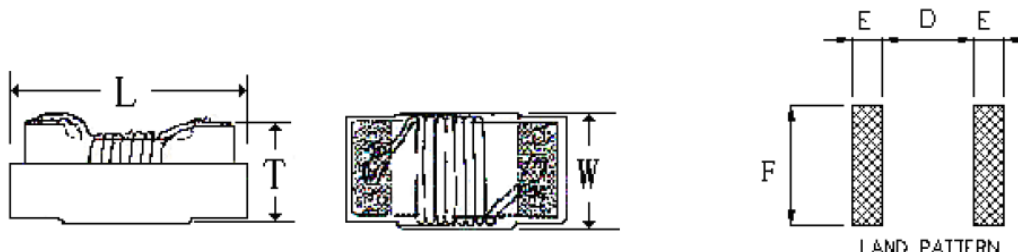


Wire Wound Chip Inductor

◆ Dimensions:(Unit:mm)



L	W	T	E	F	D
1.19 Max	0.66 Max	0.64 Max	0.4 Typ	0.64 Typ	0.64 Typ

◆ Lead Free Part Numbering

SCW 1005 T 1R0 M T T
 (1) (2) (3) (4) (5) (6) (7)

(1):Series Type

(2):Dimension

(3):Material Code

(4):Inductance:1R0=1.0uH

(5):Inductance Tolerance:M=±20%

(6):Company Code

(7):Packaging:Packed in embossed carrier tape

◆ Electrical Characteristics

Part Number	L (uH)	DCR	Irms	SRF
	7.9MHz/0.5V	Ω(Max)	mA(Max)	MHz(Min)
	HP4286A	502BC	VR116+VR7210	E5071CENA
SCW1005F1R0KST	1.0 ± 10%	6.5	50	200
SCW1005F2R2KST	2.2 ± 10%	2.3	40	100
SCW1005F4R7KST	4.7 ± 10%	4.8	15	50
SCW1005F100KST	10.0 ± 10%	8.5	10	20

※

Operating Temperature: -40°C to +85°C

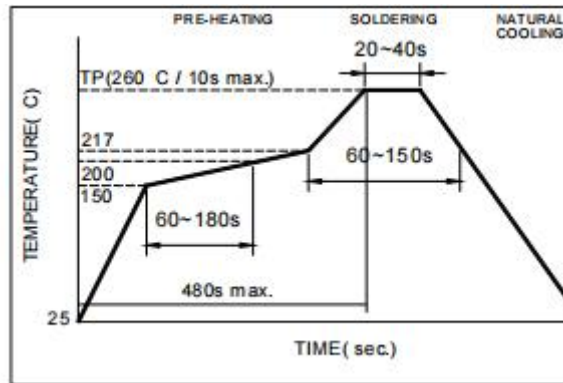
Storage condition: Temperature 10°C to +40°C, RH:60% Max

◆ Reliability Test

Item	Specification	Test Method
Temperature Shock	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-25\pm 2^{\circ}\text{C} \sim +105\pm 2^{\circ}\text{C}$ Kept for 30 minutes Transition time : 5 minutes. 100 Cycles.
Humidity Resistance	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $40\pm 2^{\circ}\text{C}$ Relative Humidity: 90% Duration: 500 +4/-0 hours
High Temperature Resistance	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $105\pm 2^{\circ}\text{C}$ Duration: 1000 +4/-0 hours
Low Temperature Resistance	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $105\pm 2^{\circ}\text{C}$ Duration: 1000 +4/-0 hours
Vibration Test	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Oscillation Frequency: 10Hz to 55Hz to 10Hz in 60 seconds as a period. Total amplitude: 1.5mm. Testing Time: a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours)
Solderability Heat Test	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Solder temperature: $260 \pm 5^{\circ}\text{C}$. Duration: 5 sec. Allowed reflow time: 2 times.
Solderability Test	90% or more of electrode area shall be coated by new solder.	Preheating: 160°C , 60sec. Solder temperature: $245\pm 5^{\circ}\text{C}$. Duration : 5 sec.
Flexure Strength	No visible mechanical damage.	Flexure: 2mm. Pressurizing Speed: 0.5mm/sec. Keep time: 30 ± 1 sec.

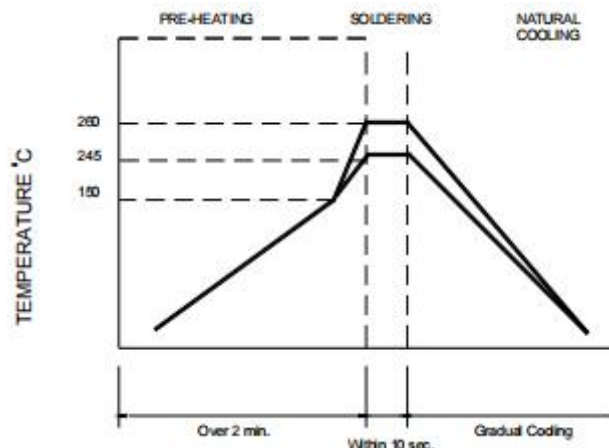
◆ Soldering Conditions

Figure 1. Re-flow Soldering (Lead Free)



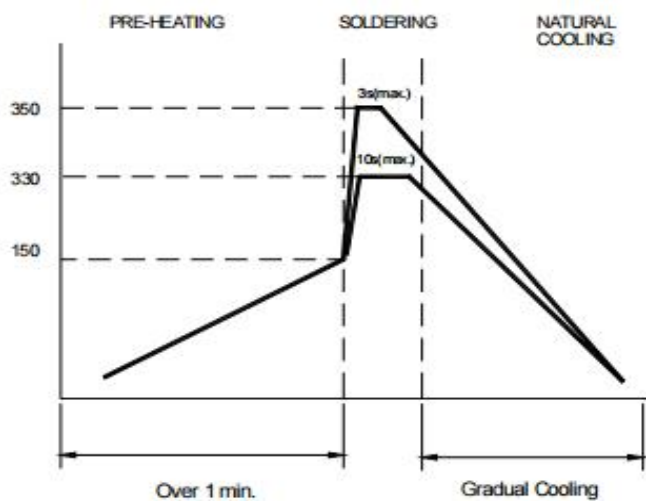
Note:Preheat circuit and products to 150°C,260°C tip temperature (max)

Figure 2:Wave Soldering



Note:Never contact the ceramic with the iron tip·1.0mm tip diameter (max)

Figure 3:Hand Soldering



Note:Use a 20 watt soldering iron with tip diameter of 1.0mm ·Limit soldering time to 3 sec.

◆ Packing:Standard Packing Quantity: 10000PCS/Reel