SMD Open Type Wire Wound Ceramic Chip Inductors - JWC Series

1-1.Mechanical Performances

No	Item	Specification	Test Method	
1-1-1	Vibration Test (Low Frequency)	1.Appearance: No damage 2. Inductance: within ±0% of initial value 3.Q change: within ±0% of initial value	1. Test Device Shall Be Soldered On The Substrate. 2. Oscillation Frequency: 10 to 55 to 10Hz for 1min. 3. Amplitude: 1.5mm 4. Time: 2hrs For Each Axis (X, Y & Z), Total 6hrs	
1-1-2	Resistance To Soldering Heat	Appearance: No Damage	 1. Pre-Heating: 150 , 1min. 2. Solder Composition: Sn/Pb = 63/37. 3. Solder Temperature: 260 ★ . 4. Immersion Time: 10 ± sec. 	
1-1-3	Solder ability	The Electrodes Shall Be At Least 90% Covered With New Solder Coating	 1. Pre-Heating: 150 , 1min. 2. Solder Composition: Sn/Pb = 63/37. 3. Solder Temperature: 230 ★ . 4. Immersion Time: 4 ± sec. 	
1-1-4	Component Adhesion (Push Test)	2 Lbs. For 0603 4 Lbs. For The Rest	The Device Should Be Reflow Soldered (230 ±5 For 10 Seconds) To A Tinned Copper Substrate. A Force Gauge Should Be Applied To The Side Of The Component. The Device Must Withstand A Minimum Force Of 2 Or 4 Pounds Without A Failure Of The Termination Attached To Component.	

1-2.Environmental Performances

No	Item	Specification	Test Method			
1-2-1	Temperature Cycle	Appearance: No Damage Inductance: within ±10% of initial	One Cycle: Step	Temperature ()	Time (min.)	
		value	1	-25 £	30	
		Q change: within £0% of initial	2	25 £	15	
		value	3	85 £	30	
			4	25 ₽	15	
			Total: 5 cycles Measured After Exposure In The Room Condition For 1Hrs			1Hrs
1-2-2	Humidity Resistance		Temperatur Relative Hu	e: 40 £ midity: 90 ~ 95%		
			Time: 100H	•	oom Condition For	1∐rc
1-2-3		1	Temperature		DOTT COTTAINOTT OF	11113
	High Temperature Resistance		Time: 50 Hrs			
			Measured A	After Exposure In The Ro	oom Condition For	1Hrs
1-2-4	Low Temperature Resistance		Temperature	e: -40 B		
			Time: 50 Hrs	S		
			Measured After Exposure In The Room Condition For 1Hrs			
1-2-5	High Temperature Load Life	There Should Be No Evidence Of Short Or Open Circle	Temperatur			
				ed DC Current		
		i ·	Time: 1000Hrs			

Reliability Test - JWC Series

No	Item	Specification	Test Method
1-2-6	Humidity Load Life		Temperature: 40 €
			Relative Humidity: 90 ~ 95%
			Load: Allowed DC Current
			Time: 1000Hrs