## **SMD Multilayer Ceramic Chip Inductors**

JMC Series

## 1-1.Mechanical Performances

No	Item	Specification	Test Method				
1-1-1	Flexure Strength	The forces applied on the right	Test device shall be soldered on the substrate				
		conditions must not damage the	Substrate Dimension: 100x40x1.6mm				
		terminal electrode and the ferrite.	Deflection: 2.0mm				
			Keeping Time: 30sec				
			*For 100505, substrate dimension is 100x40x0.8mm				
1-1-2	Vibration		Test device shall be soldered on the substrate				
			Oscillation Frequency: 10 to 55 to 10Hz for 1min				
			Amplitude: 1.5mm				
			Time: 2hrs for each axis (X, Y & Z), total 6hrs				
1-1-3	Resistance to	Appearance: No damage	Pre-heating: 150 , 1min				
	Soldering Heat		Solder Composition: Sn/Pb = 63/37				
			Solder Composition:Sn/Ag3.0/Cu0.5(Pb-Free)				
			Solder Temperature: 260 ±5				
			Immersion Time: 10 ± sec				
1-1-4	Solder ability	The electrodes shall be at least	Pre-heating: 150 , 1min				
		90% covered with new solder	Solder Composition: Sn/Pb = 63/37				
		coating	Solder Temperature: 220 £5				
			Solder composition:Sn/Ag3.0/Cu0.5(Pb-Free)				
			Solder Temperature:245 ±5 (Pb-Free)				
			Immersion Time: 4   sec				

## 1-2. Environmental Performances

No	Item	Specification	Test Method					
	Temperature Cycle	Appearance: No damage Inductance: within #10% of initial value	One cycle:					
1-2-1			Step	Temperature ( )	Time (min)			
			1	-25 <b>£</b> 8	30			
			2	25 <del>£</del>	3			
		Q change: within £0% of initial	3	85 £	30			
		volue	4	25 <del>£</del>	3			
		value Total: 100cycles Measured after exposure in the room condition for 24						
1-2-2	Humidity Resistance		Temperature: 40- <del>2</del>					
1-2-2			Relative Humidity: 90 ~ 95% Time: 1000hrs					
			Measured after exposure in the room condition for 24hrs					
1-2-3	High Temperature		Temperature: 85 & Relative Humidity: 20% Applied Current: Rated Current					
	Resistance							
			Time: 1000hrs. Measured after exposure in the room condition for 24hrs					
	Low Temperature		Temperature: -25 \$					
1-2-4			Relative Humidity: 0% Time: 1000hrs Measured after exposure in the room condition for 24hrs					
	Resistance							