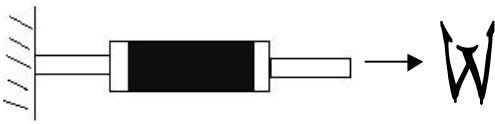


SMD Multilayer Ferrite Chip Beads

SB/PB/NB/GB/UPB/BA Series

1-1.Mechanical Performances

No	Item	Specification	Test Method
1-1-1	Flexure Strength	The forces applied on the right conditions must not damage the terminal electrode and the ferrite	Test device shall be soldered on the substrate Substrate Dimension: 100x40x1.6mm 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 Soldering Heat	Appearance: No damage More than 75% of the terminal electrode should be covered with solder. Impedance: within ±80% of initial value	Pre-heating: 150 , 1min 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 90% covered with new solder coating	Pre-heating: 150 , 1min Solder Composition: Sn / Pb = 63/37 Solder Temperature: 220 ±5 Solder composition:Sn/Ag3.0/Cu0.5(Pb-Free) Solder Temperature:245 ±5 (Pb-Free) Immersion Time: 4 ±sec
1-1-5	Terminal Strength Test	100505 series : 0.2 kg 160808 series : 0.5 kg 201209 series : 1.0 kg other series : 2.0 kg (BAY/BAQ)321609 series : 1.5 kg (Push)	Test device shall be soldered on the substrate 

Reliability Test - SB/PB/NB/GB/UPB/BA Series

1-2.Environmental Performances

No	Item	Specification	Test Method															
1-2-1	Temperature Cycle	Appearance: No damage Impedance: within ±0% of initial value	One cycle: <table border="1" data-bbox="627 293 984 465"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (min)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-55 ±3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25 ±2</td> <td>3</td> </tr> <tr> <td>3</td> <td>125 ±3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25 ±2</td> <td>3</td> </tr> </tbody> </table> Total: 100cycles Measured after exposure in the room condition for 24hrs	Step	Temperature (°C)	Time (min)	1	-55 ±3	30	2	25 ±2	3	3	125 ±3	30	4	25 ±2	3
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1	-55 ±3	30																
2	25 ±2	3																
3	125 ±3	30																
4	25 ±2	3																
1-2-2	Humidity Resistance		Temperature: 40 ±2 Relative Humidity: 90 ~ 95% Time: 1000hrs Measured after exposure in the room condition for 24hrs															