

CB Series — Performance Specifications

| Mechanical Performance | | |
|------------------------|------------------------------|--|
| Item | Specification | Test Method |
| 1 | Bend Test | Solder onto substrate to perform test Substrate Dimension : 100x40x1.6mm Deflection : 2mm Time : 30sec |
| 2 | Vibration Test | 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 6 hrs |
| 3 | Resistance to Soldering Heat | Pre-heat : 150°C for 1 min Solder Composition : Sn/Pb = 63/37 Solder Temperature : 260 ± 5°C Immersion Time : 10 ± 1sec |
| 4 | Solderability Test | 90% covered with solder Pre-heat : 150°C for 1 min Solder Composition : Sn/Pb = 63/37 Solder Temperature : 230 ± 5°C Immersion Time : 4 ± 1sec |

| Climatic Tests | | | | | | | | | | | | | | | | | |
|----------------|----------------------------|---|------|-----------------|------------|---|------|----|---|------|---|---|-------|----|---|------|---|
| Item | Specification | Test Method | | | | | | | | | | | | | | | |
| 1 | Thermal Shock | Total 100 cycles <table border="1"> <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> Measured after exposure in 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 |
| Step | Temperature (C) | Time (min) | | | | | | | | | | | | | | | |
| 1 | 55±3 | 30 | | | | | | | | | | | | | | | |
| 2 | 25±2 | 3 | | | | | | | | | | | | | | | |
| 3 | 125±3 | 30 | | | | | | | | | | | | | | | |
| 4 | 25±2 | 3 | | | | | | | | | | | | | | | |
| 2 | Humidity Test | Temperature : 40 ± 2°C Relative Humidity : 90~95% Time : 1000hrs± 2hrs Measured after exposure in the room condition for 2hrs | | | | | | | | | | | | | | | |
| 3 | High Temperature Load Test | Temperature : 125 ± 3°C Relative Humidity : 0% Time : 1000hrs± 2hrs Measured after exposure in the room condition for 2hrs | | | | | | | | | | | | | | | |
| 4 | Low Temperature Load Test | Temperature : -55 ± 3°C Relative Humidity : 0% Time : 1000hrs± 2hrs Measured after exposure in the room condition for 2hrs | | | | | | | | | | | | | | | |
| 5 | Temperature Characteristic | -40°C ~ +125°C | | | | | | | | | | | | | | | |

Storage Temperature: 25 ± 3°C; Humidity : < 80%RH