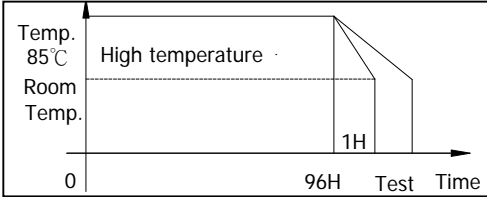
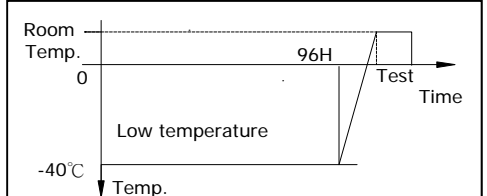
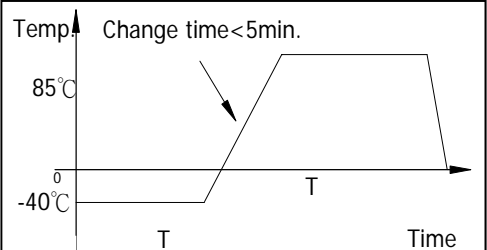


Pb-FREE PRODUCTS 無鉛產品

No	Item [項目]	Test Method & Conditions [試驗方法、條件]	Specification After Test [試驗後規格]
A . Environmental Characteristics 環境試驗			
1	High temperature test 高溫試驗	1.No case deformation or change in appearance 2. $\Delta Z/Z \leq 30\%$ Reference documents: MIL-STD-202G Method 108A 1. 無明顯的外觀缺陷 2. 阻抗值變化不超過30%	1. Temperature: $85 \pm 2^\circ\text{C}$ 2. Time : 96 ± 2 hours 3. Tested not less than 1 hour, nor more than 2 hours at room temperature.  1. 溫度: $85 \pm 2^\circ\text{C}$ 2. 時間: 96 ± 2 小時 3. 樣品在室溫下放置1小時,不超2小時間必須測試
2	Low temperature test 低溫試驗	1.No case deformation or change in appearance 2. $\Delta Z/Z \leq 30\%$ Reference documents: IEC 68-2-1A 6.1 6.2 1. 無明顯的外觀缺陷 2. 阻抗值變化不超過30%	1. Temperature: $-40 \pm 2^\circ\text{C}$ 2. Time : 96 ± 2 hours 3. Tested not less than 1 hour, nor more than 2 hours at room temperature.  1. 溫度: $-40 \pm 2^\circ\text{C}$ 2. 時間: 96 ± 2 小時 3. 樣品在室溫下放置1小時,不超2小時間必須測試
3	Thermal shock test 熱衝擊試驗	1.No case deformation or change in appearance 2. $\Delta Z/Z \leq 30\%$ For T: weight $\leq 28\text{g}$: 15Min; $28\text{g} \leq \text{weight} \leq 136\text{g}$: 30Min Reference documents: MIL-STD-202G Method 107G 1. 無明顯的外觀缺陷 2. 阻抗值變化不超過30%	First -40°C for T time, last 85°C T time as 1 cycle. Go through 5 cycles.  從 -40°C 作用T分鐘,然後溫度衝擊到 85°C 作用T分鐘,作為一個循環,共作用5次.

Pb-FREE PRODUCTS 無鉛產品

No	Item [項目]	Test Method & Conditions [試驗方法、條件]	Specification After Test [試驗後規格]
A . Environmental Characteristics 環境試驗			
4	Humidity test 濕度測試	1.No case deformation or change in appearance 2. $\Delta Z/Z \leq 30\%$ Reference documents: MIL-STD-202G Method 103B 1. 無明顯的外觀缺陷 2. 阻抗值變化不超過30%	1. Dry oven at a temperature of $40^{\circ} \pm 5^{\circ}\text{C}$ for 24 hours. 2. Measurements At the end of this period 3. Exposure: Temperature: $40 \pm 2^{\circ}\text{C}$, Humidity: $93 \pm 3\% \text{RH}$, Time : 96 ± 2 hours 4. Tested while the specimens are still in the chamber 5. Tested not less than 1 hour, nor more than 2 hours at room temperature. <div style="text-align: center;"> </div> 1. 樣品必須先在 $40^{\circ} \pm 5^{\circ}$ 條件下乾燥24小時 2. 乾燥後測試 3. 暴露: 溫度: $40 \pm 2^{\circ}\text{C}$, 溼度: $93 \pm 3\% \text{RH}$ 時間 : 96 ± 2 hours 4. 暴露結束後,在試驗箱中進行測試. 5. 樣品在室溫下放置1小時,不超2小時間必須測試.
B . Physical characteristic tests 物理特性試驗			
5	Vibration test 振動測試	1.No case deformation or change in appearance 2. $\Delta Z/Z \leq 30\%$ Reference documents: MIL-STD-202G Method 201A CNS 3629, C 6016 1. 無明顯的外觀缺陷 2. 阻抗值變化不超過30%	Apply frequency 10~55Hz. 1.5mm amplitude in each of perpendicular direction for 2 hours.(total 6 hours) <div style="text-align: center;"> </div> 用10~55Hz 振動頻率1.5mm振幅沿X,Y,Z方向各振動2小時.(共6小時)

Pb-FREE PRODUCTS 無鉛產品

No	Item [項目]	Test Method & Conditions [試驗方法、條件]	Specification After Test [試驗後規格]
B . Physical characteristic tests 物理特性試驗			
6	Temperature cycles test 溫度循環試驗	1.No case deformation or change in appearance 2. $\Delta Z/Z \leq 30\%$ Reference documents: JESD22-A104 CNS 5070, C6045 1. 無明顯的外觀缺陷 2. 阻抗值變化不超過30%	1. One Cycle : +70°C/60Min , -20°C/60Min 2. Cycle Times : 10 Cycle 3. Tested not less than 1 hour, nor more than 2 hours at room temperature. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="font-size: small; text-align: center;">Temp. 70°C 95% R.H. - 20°C Time(hour) As a cycle, total 10 cycles</p> </div> 1. 1 週期：+70°C/60Min , -20°C/60Min 2. 週期：10次 3. 樣品在室溫下放置1小時,不超2小時間必須測試.

