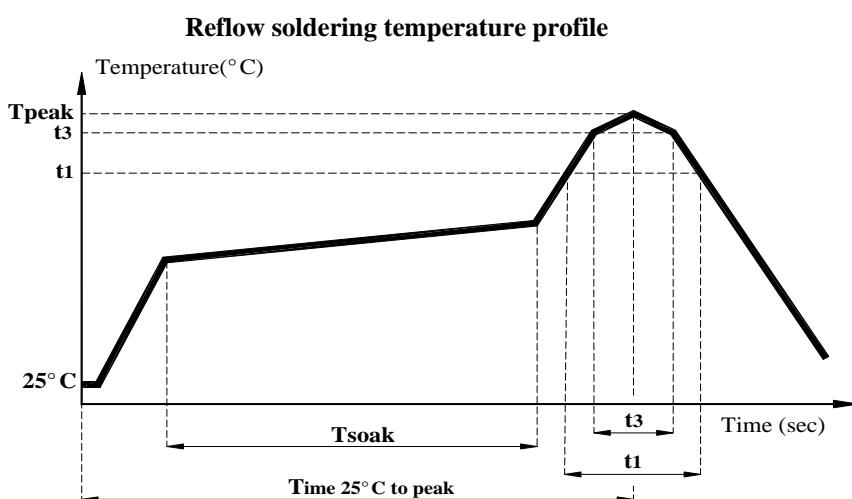


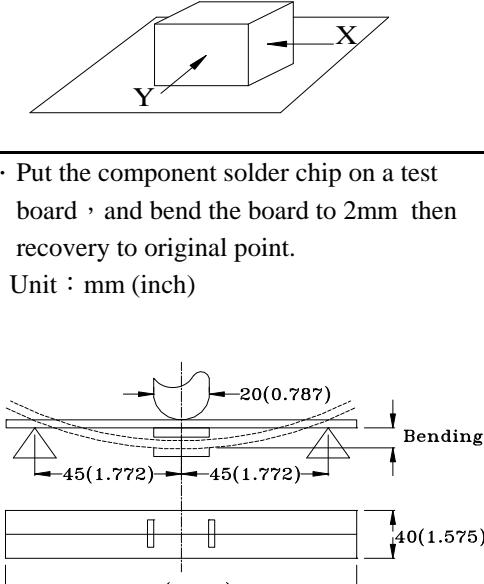
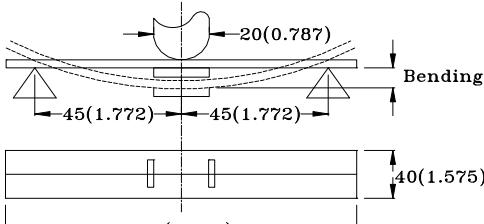
Pb-FREE PRODUCTS 無鉛產品

No	Item [項目]	Test Method & Conditions [試驗方法、條件]	Specification After Test [試驗後規格]																														
A . Mechanical Characteristics 機械特性																																	
1	Operating Temperature 工作溫度	- 40 °C ~ + 125 °C (Including self - temperature rise) 含自身發熱溫度																															
2	Storage temperature and Humidity range 儲存溫度濕度	- 10 °C ~ + 40 °C max. ; 70% RH max.	<ul style="list-style-type: none"> at packing condition 在包裝條件 																														
3	Solder Heat Resistance 抗焊錫熱特性	<ul style="list-style-type: none"> Solder : M705-GRN360-K2-V Peak-temp.hold time : 4 sec Pre-heat , Solder Temperature & Dip Reflow soldering time as follow : 	<ul style="list-style-type: none"> No Damage and No Abnormal on Surface Impedance : Within $\pm 20\%$ of Initial Value More than 75% of the terminal electrode should be covered and uniformity with solder 產品表面不能被破壞及不正常的情形 阻抗值：初始值的$\pm 20\%$以內 端子吃錫需均勻，吃錫面積75%以上 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Item</th> <th rowspan="2">mark</th> <th colspan="2">products</th> </tr> <tr> <th>size $\geq 350\text{mm}^3$ or thickness $\geq 2.5\text{mm}$</th> <th>size $< 350\text{mm}^3$ or thickness $< 2.5\text{mm}$</th> </tr> </thead> <tbody> <tr> <td>Temperature rise gradient</td> <td></td> <td colspan="2">3°C/sec (max)</td> </tr> <tr> <td>Heating time Heating temperature</td> <td>Tsoak</td> <td>50s ~ 150s 120°C ~ 180°C</td> <td></td> </tr> <tr> <td>Time over 217°C</td> <td>t1</td> <td>60 sec</td> <td>90 sec</td> </tr> <tr> <td>Time within 5°C of actual peak temperature</td> <td>t3</td> <td>10~30 sec</td> <td>10~30 sec</td> </tr> <tr> <td>Peak temperature</td> <td>Tpeak</td> <td>250 (+0 / -5 °C)</td> <td>260 (+0 / -5 °C)</td> </tr> <tr> <td>Time 25°C to peak Temperature</td> <td></td> <td colspan="2">6 minutes max.</td> </tr> </tbody> </table>	Item	mark	products		size $\geq 350\text{mm}^3$ or thickness $\geq 2.5\text{mm}$	size $< 350\text{mm}^3$ or thickness $< 2.5\text{mm}$	Temperature rise gradient		3°C/sec (max)		Heating time Heating temperature	Tsoak	50s ~ 150s 120°C ~ 180°C		Time over 217°C	t1	60 sec	90 sec	Time within 5°C of actual peak temperature	t3	10~30 sec	10~30 sec	Peak temperature	Tpeak	250 (+0 / -5 °C)	260 (+0 / -5 °C)	Time 25°C to peak Temperature		6 minutes max.	
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*The determination, first primarily determines by the size, then determines the altitude.



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No	Item [項目]	Test Method & Conditions [試驗方法、條件]	Specification After Test [試驗後規格]
A . Mechanical Characteristics 機械特性			
4	Solderability 焊錫性	<ul style="list-style-type: none"> Solder : M705-GRN360-K2-V Solder Temp : $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Dip time : 5 sec 錫 : M705-GRN360-K2-V 錫爐溫度 : $245^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 時間 : 5秒 	<ul style="list-style-type: none"> More than 90% of the terminal electrode should be covered and uniformly with fresh solder. 吃錫面積需90%以上且需均勻
5	Terminal Strength 端子強度	<ul style="list-style-type: none"> After soldering of X , Y withstanding as below conditions. The terminal should not peel off.(Refer to figure as below) Define : A=sectional area of terminal <p> $A \leq 8\text{mm}^2$ force $\geq 0.5\text{kg}$, time : 30sec $8\text{mm}^2 < A \leq 20\text{mm}^2$ force $\geq 1\text{kg}$, time : 10sec $20\text{mm}^2 < A$ force $\geq 2\text{kg}$, time : 10sec </p> <p> 在鋸接X.Y 後,所承受條件情況(如下圖) 端點不可剝離(如下圖) </p> 	<ul style="list-style-type: none"> Terminal and body must not be damage or separate 端子及本體不能被破壞或分離
6	Flexure Strength 彎折強度	<ul style="list-style-type: none"> Put the component solder chip on a test board , and bend the board to 2mm then recovery to original point. Unit : mm (inch)  <p> 將待測品焊接到一測試基板上，測試基板彎曲度到2mm位置，然後回復至原點。 </p>	<ul style="list-style-type: none"> No damage and no abnormal on chip body surface. 產品不能有被破壞或不正常情形.

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No	Item [項目]	Test Method & Conditions [試驗方法、條件]	Specification After Test [試驗後規格]
B . Environmental Characteristics 環境試驗			
7	High Temp Resistance Test 高溫負荷測試	<ul style="list-style-type: none"> Operate Temperature : $125^{\circ}\text{C} \pm 3^{\circ}\text{C}$ Applied Current : per spec. Time : 96 Hrs Measure after exposure in the room temperature for 4 to 24 Hrs. <p>動作溫度：$125^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 印加電流：依產品規格最大值 時間：96 小時 試驗完成後取出置於室溫4 - 24小時後進行測試</p>	<ul style="list-style-type: none"> Appearance : no damage Impedance : Within $\pm 20\%$ of Initial Value <p>外觀：不能有破損異常現象 阻抗值：初始值的$\pm 20\%$以內</p>
8	Humidity Test 耐濕試驗	<ul style="list-style-type: none"> Temperature : $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ Humidity : $95 \pm 2\% \text{ R.H.}$ Applied Current : per spec. Time : 96 Hrs Measure after exposure in the room temperature for 4 to 24 Hrs. <p>溫度：$40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 濕度：$95 \pm 2\% \text{ R.H.}$ 印加電流：依產品規格最大值 時間：96 小時 試驗完成後取出置於室溫4 - 24小時後進行試驗</p>	<ul style="list-style-type: none"> Appearance : no damage Impedance : Within $\pm 20\%$ of Initial Value <p>外觀：不能有破損異常現象 阻抗值：初始值的$\pm 20\%$以內</p>
9	Temperature Cycling Test 溫度循環試驗	<ul style="list-style-type: none"> One Cycle : $+125^{\circ}\text{C}/30\text{Min}$ $-40^{\circ}\text{C}/30\text{Min}$ Cycle Times : 5 Cycle Measure after exposure in the room temperature for 4 to 24 Hrs. <p>1 週期：$+125^{\circ}\text{C}/30\text{Min}$ $-40^{\circ}\text{C}/30\text{Min}$ 週期：5次 試驗完成後取出置於室溫4 - 24小時後進行測試</p>	<ul style="list-style-type: none"> Appearance : no damage Impedance : Within $\pm 20\%$ of Initial Value <p>外觀：不能有破損異常現象 阻抗值：初始值的$\pm 20\%$以內</p>



SMD WIDE BAND CHOKE-*R5H*

修訂紀錄