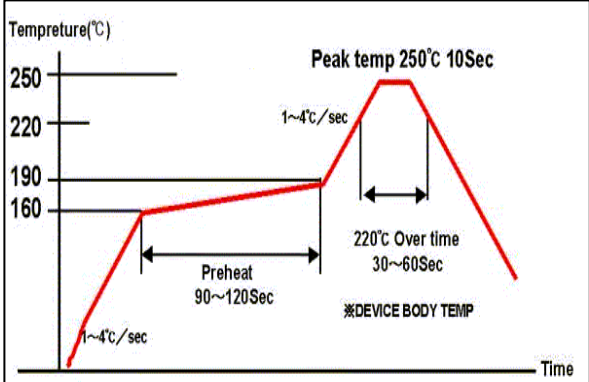
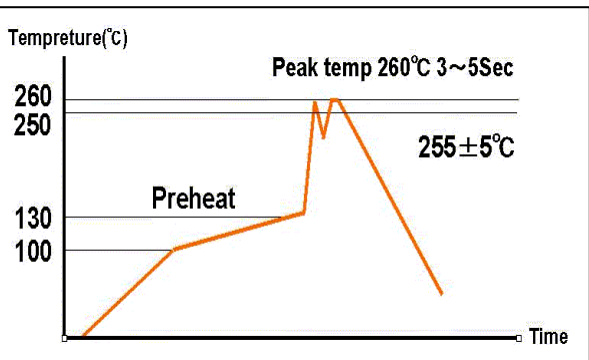
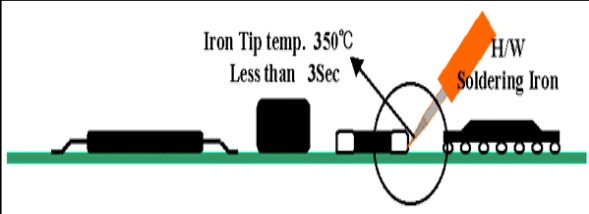


Pb-FREE PRODUCTS 無鉛產品

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	Temp. Range : Ceramic Material : - 40 °C ~ + 125 °C Ferrite Material : - 40 °C ~ + 85 °C	
2	Storage temperature and Humidity range 儲存溫度濕度	- 10 ~ +40°C ; 20 to 70% RH.	
3	Solder Heat Resistance 抗焊錫熱特性	<ul style="list-style-type: none"> · Dip the components into flux and dip into solder pot containing lead free solder at 260 °C ± 5 °C for 5 ± 2 seconds. <p>Temperature profile</p> <p><input type="checkbox"/> Reflow soldering temperature profile</p> <p>*(Temperature of the mounted parts surface on the printed circuit board)</p>  <ul style="list-style-type: none"> · Reflow : 250°C Max · 250°C up /within 10secs · Gradient of temperature rise : av 1-4°C/sec · Preheat : 160-190°C/within 90-121secs · 220°C up /within 30-61secs · Solder : Sn-3Ag-0.5Cu <p><input type="checkbox"/> Dip temperature</p>  <ul style="list-style-type: none"> · Solder temperature: 260°C max within 5secs. · Preheating temperature : 100~130°C, deposit solder temperature. · Solder : Sn-3Ag-0.5Cu <p><input type="checkbox"/> Soldering iron tip temperature :</p>  <ul style="list-style-type: none"> · Iron Temp : 350°C max · Time : 3 sec. 	<ul style="list-style-type: none"> · Change In Inductance : No more than 5% · Change In Q : No more than 10% · Change In Appearance : Without distinct damage

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			
4	Solderability 焊錫性	<ul style="list-style-type: none"> Dip pads in flux and dip in solder pot containing lead free solder at $240\text{ }^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 5 seconds. 	<ul style="list-style-type: none"> A minimum of 80% of the metalized are a must be covered with solder.
5	Component Adhesion (Push Test) 推力試驗	<ul style="list-style-type: none"> The component shall be reflow soldered onto a P. C. Board ($240\text{ }^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 20 seconds). Then a dynameter force gauge shall be applied to any side of the component. 	<ul style="list-style-type: none"> 0402 series - 350g 0603 series - 1.0Kg Other series - 0805 ~ 1812 Minimum 1Kg for Pd/Ag termination and 2Kg for Mo/Mn termination.
6	Vibration (Random) 振動試驗	<ul style="list-style-type: none"> Inductors shall be randomly vibrated at amplitude of 1.5mm and frequency of 10 - 55 Hz: 0.04 G / Hz for a minimum of 15 minutes per axis for each of the three axes. 	<ul style="list-style-type: none"> Change In Inductance : No more than 5% Change In Q : No more than 10% Change In Appearance : Without distinct damage
7	Drop Test 落下試驗	<ul style="list-style-type: none"> The inductor shall be dropped two times on the concrete floor or the vinyl tile from 1M naturally. 	<ul style="list-style-type: none"> Change In Inductance : No more than 5% Change In Q : No more than 10% Change In Appearance : Without distinct damage
B . Environmental Characteristics 環境試驗			
8	Cold Temperature Storage 低溫儲存	<ul style="list-style-type: none"> Inductors shall be stored at temperature of $-40\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ for 1000hrs (+ 48 -0 hrs.) Then inductors shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made. 	<ul style="list-style-type: none"> Change In Inductance : No more than 5% Change In Q : No more than 10% Change In Appearance : Without distinct damage
9	High Temperature Storage 高溫儲存	<ul style="list-style-type: none"> Inductors shall be stored at temperature of $85\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ for 1000hrs (+48 - 0hrs.) Then inductors shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made. 	<ul style="list-style-type: none"> Change In Inductance : No more than 5% Change In Q : No more than 10% Change In Appearance : Without distinct damage
10	Moisture Resistance 耐溼試驗	<ul style="list-style-type: none"> Inductors shall be stored in the chamber at $45\text{ }^{\circ}\text{C}$ at 90 - 95 R. H. for 1000 hours. Then inductors are to be tested after 2 hours at room temperature. 	<ul style="list-style-type: none"> Inductors shall not have a shorted or open winding.

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 . Environmental Characteristics 環境試驗			
11	High Temperature with Loaded 高溫負載	<ul style="list-style-type: none">Inductors shall be stored in the chamber at +85 °C for 1000 hours with rated current applied. Inductors shall be tested at the beginning of test at 500 hours and 1000 hours.Then inductors are to be tested after 1 hour at room temperature.	<ul style="list-style-type: none">Inductors shall not have a shorted or open winding.
12	Thermal Shock Test 熱衝擊試驗	<ul style="list-style-type: none">Each cycle shall consist of 30 minutes at -40 °C followed by 30 minutes at +85 °C with a 20-second maximum transition time between temperature extremes. Test duration is 10 cycles.	<ul style="list-style-type: none">Change In Inductance : No more than 5%Change In Q : No more than 10%Change In Appearance : Without distinct damage