

產品規格書

SPECIFICATION

MAY. 8.000

產品名稱

石英晶體諧振器

Description

Crystal Unit

型號 · 標稱頻率

Type · Nominal Frequency

5032

8.000M -25.000M

規格書號

Specification

X5032 80002001

勝特力材料 886-3-5753170
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批准

APPROBED BY

審核

CHECKED BY

製作

DESIGNED BY

1. 外觀・印字

Outline and Marking

型號 Type	SMD Crystal5032/4PAD
外形尺寸圖 Outline and Dimensions	附圖 1 Drawing 1
印字示意圖 Marking	附圖 2 Drawing 2
回流焊溫度曲線圖 Reflow Temp. Profile	附圖 3 Drawing 3

2. 電氣性能

Electrical Performance

標稱頻率 Nominal Frequency	8.000MHz-25.000MHz
振盪模式 Mode of Oscillation	Fund
負載電容 Load Capacitance	20pF
存儲溫度範圍 Storage Temperature	-55℃ ~ +125℃
工作溫度範圍 Operating Temperature	-20℃ ~ +70℃
頻率公差 Frequency Tolerance	±20ppm (at +25℃±2℃)
溫度特性 Frequency-Temperature Characteristics	±30ppm (-20℃ ~ +70℃) Based on the measured value at +25℃
等效串聯電阻 Equivalent Series Resistance	附表 1
並聯電容 Shunt Capacitance	5pf MAX
激勵功率 Level of Drive	100uW
老化率 Aging	±1ppm/year

附表 1

Resonance resistance		
Frequency (MHz)	Mode	Ohm Max
$8 \leq Fr \leq 10$	Fundamental	70

10 < Fr ≤ 12	Fundamental	60
12 < Fr ≤ 16	Fundamental	50
16 < Fr ≤ 40	Fundamental	40

3.機械性能

Mechanical Performance

衝擊(自由落體) Shock (Random Drop)	下落高度 Height: 75mm 下落次數 Dropped Time: 3 自由落體到硬質木板(30mm) Rigid Hardwood Surface	頻率變化量 Frequency change permitted : ±3 ppm
回流焊耐熱性 Thermal Stability of Solder	參考圖 3	等效串聯阻抗所允許的變化量 Equivalent series resistance change permitted: ±5Ω or ±10% 兩者選最大 whichever is the large
氣密性 Leakage	細漏 Fine leak: Helium leak test *JIS C 6701 10.6	漏率 Leak rate 5*10 ⁻⁸ Pa.m ³ /sMAX

3. 測試設備

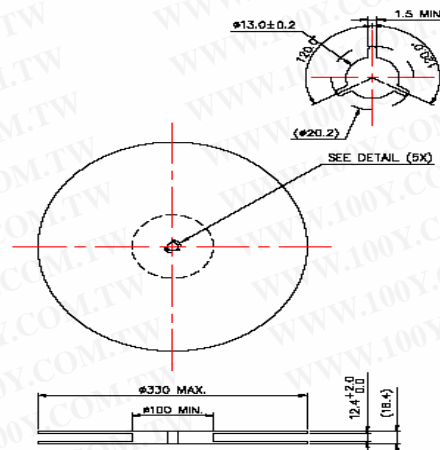
Test Set

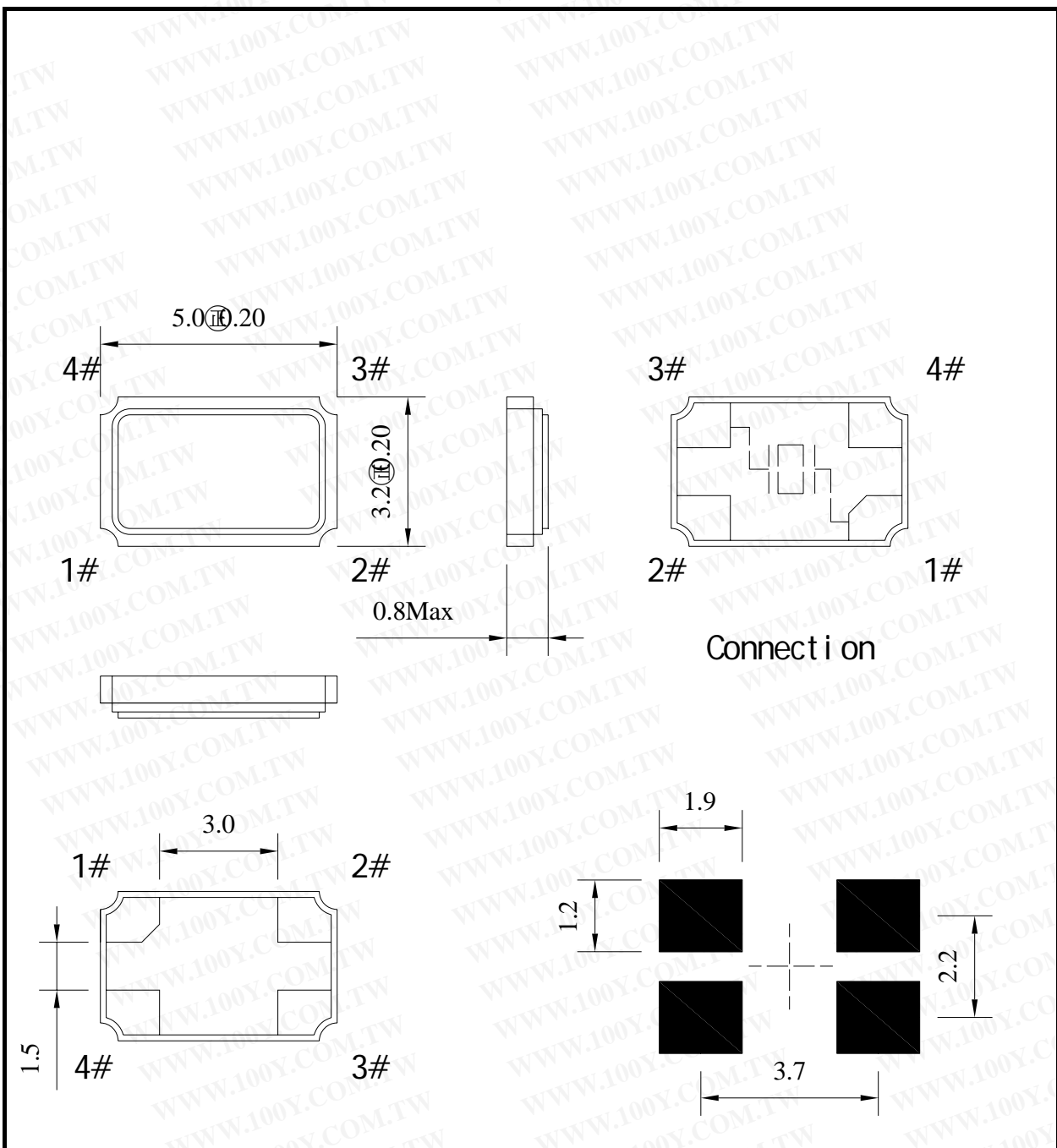
Π 網路分析儀 Network Analyzer: S&A 250B

附圖 1

Reel Dimensions (mm):

Drawing 1





Scale none Dimension in mm

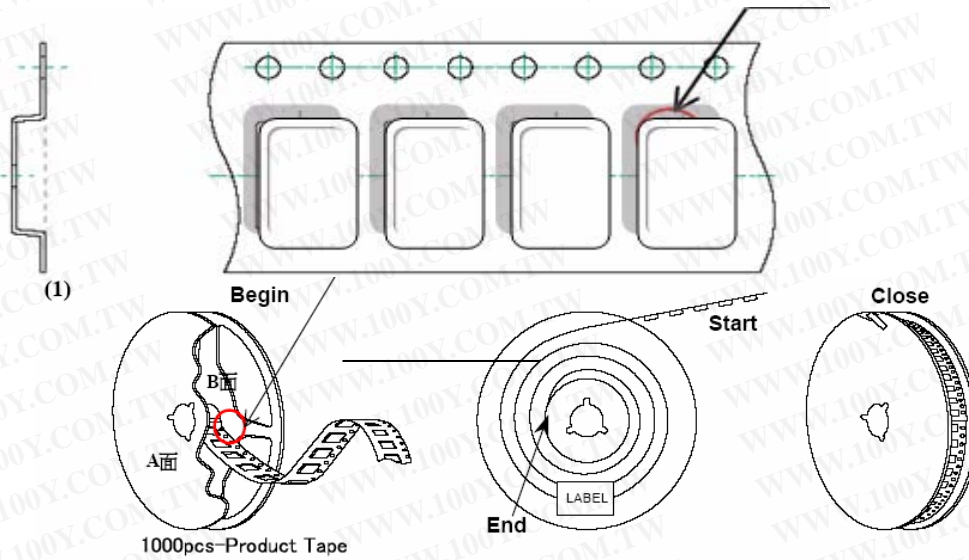
Suggested Layout

1) 晶體編帶方向有一致性。Pin1 必須要在 taping 圓洞的那一邊。
The orientation of typing should be coherent. Pin1 must be at the side of hole.

2) 印字的左下角是在 pin1 的上方。
Under left corner is the pin 1.

見下圖

As follows:



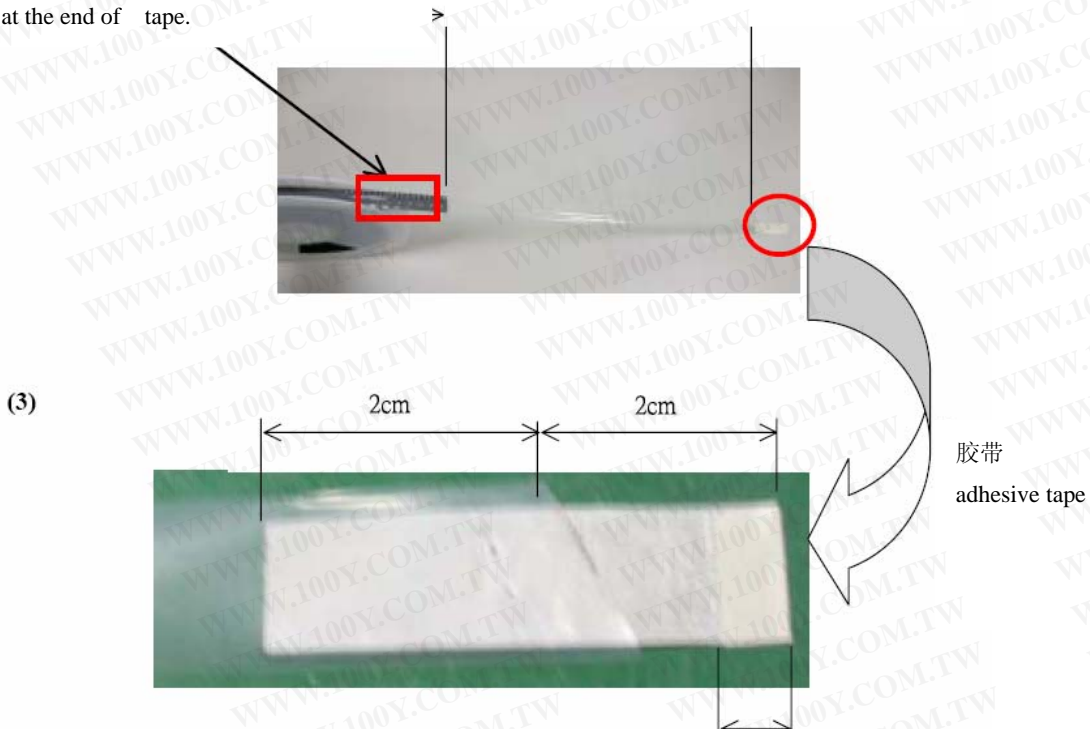
在裝入晶體前必須至少留 300mm (40 個空格) 的空的載帶，並用膠膜封上。

料帶尾端留 30cm 不放產品

膠膜尾端留 30~50cm

There should remain 30cm without XTAL at the end of tape.

The end of adhesive tape should remain 30-50mm



膠帶前端向下反折 1cm，以利拆卸
Make the adhesive tape backward 1cm in order to open conveniently.

料帶拉力值：30-60g。

Material belt pulling strength: 30-60g

a · 料帶拉力測試角度：165°~180°。

Material belt pulling force test angle: 165°~180°

b · 料帶拉力測試速度：300mm/min。

Material belt pulling force test speed: 300mm/min。

c · 料帶拉力測試長度：300mm。

Material belt pulling force test length

5. 在膠盤正面粘貼標籤，將膠盤放入氣泡袋中，將氣泡袋塑封密閉。

Affix the label on the obverse side of reel, then put the reel into air bubble bag and seal it.



4. 將裝好膠盤的防靜電袋裝入小紙箱中，在紙箱表面標貼標籤與無鉛標識。

Put the anti-electrostatic bag into case and affix label and lead free mark.



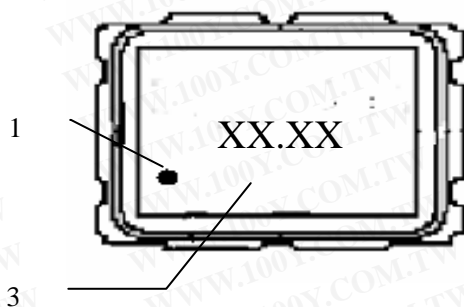
7.10 只小紙箱放入大紙箱中，四周使用氣泡袋填充。內附出貨檢驗報告。

Put 10 small boxes into a big one and fill them with bubble bags. Enclose the goods inspection report.



附圖 2
Drawing 2

Marking



1. #1腳標識:

#1 Pin Mark: ●

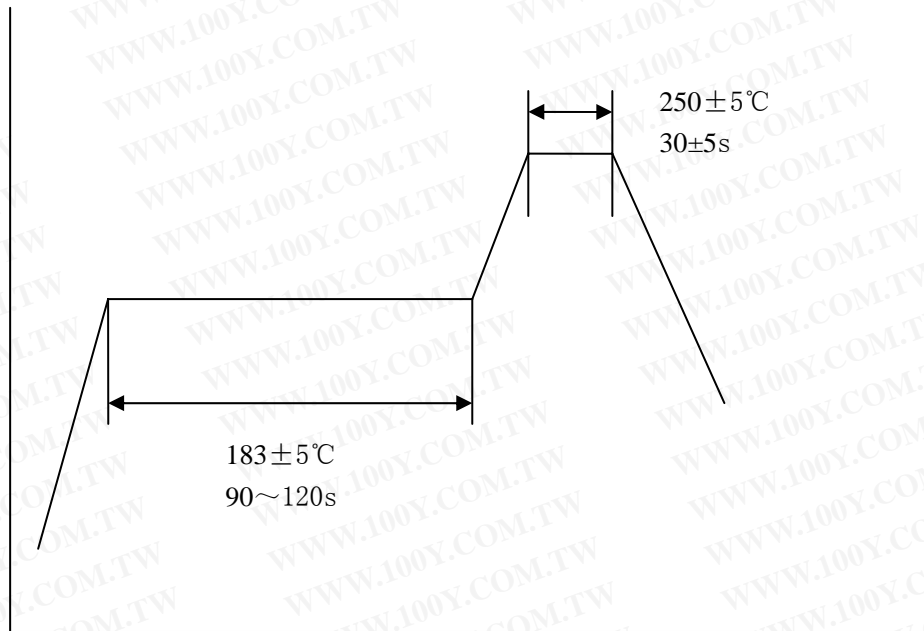
2. 標稱頻率: 取前4位元數字

Nominal Frequency: XX.XX

(e.g.) 26.000000Mhz ----- 26.00

16.934400Mhz ----- 16.93

附圖 3
Drawing 3



附：產品電氣參數驗收依據：GB2828-87 一般檢驗水準 II AQL=0.4

Enclose: The product electricity parameter approval rests on GB2828-87 commonly test level II AQL=0.4

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