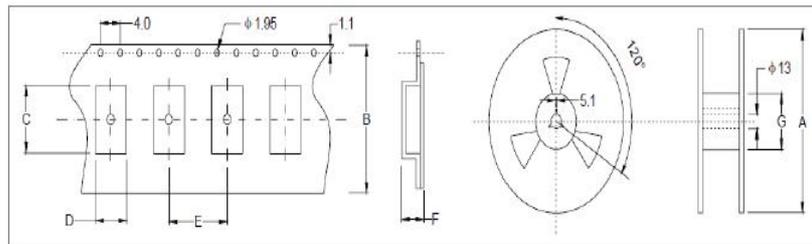
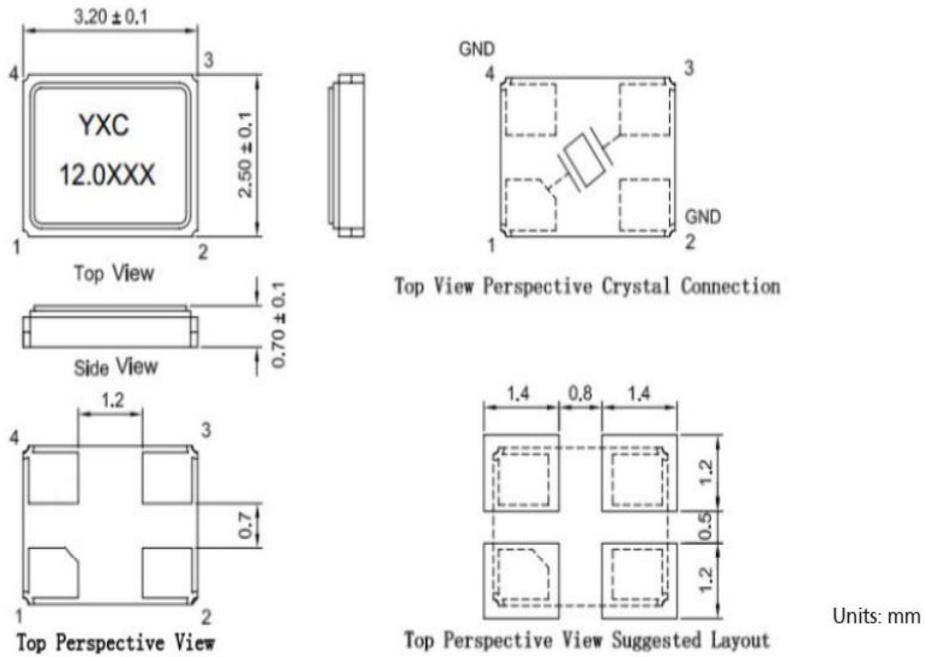


勝特力電材超市-龍山店 886-3-5773766  
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 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
<http://www.100y.com.tw>

产品规格书/ SPECIFICATION		型号 YSX321SL		
● ELECTRICAL PARAMETERS				
谐振器产品技术指标		Min	Max	Units
1. Holder Type(型号规格)		SEAM 3.2*2.5		
2. Mode of Oscillation (振动模式)		Fundamental		
3. Frequency (标称频率)		12.000000		MHz
4. Load Capacitance (CL) (负载电容)		20		pF
5. Shunt Capacitance (Co) (静态电容)		1	1.5	pF
6. Equivalent Resistance (谐振电阻)			60	$\Omega$
7. Frequency Tolerance at 25°C (调整频差)		-10	10	ppm
8. Stability over operation temperance (温度频差)		$\pm 30$		ppm
9. Insulation Resistance (at DC 100V) (绝缘电阻)		500		M $\Omega$
10. Drive Level (激励功率)		100		uw
11. Operating Temperature Range (工作温度范围)		-40	85	$^{\circ}\text{C}$
12. Storage Temperature Range (储存温度范围)		-40	85	$^{\circ}\text{C}$
13. Aging (老化率)		$\pm 3$		ppm/year
14. Other (其他)	0			
<p>Aging</p> <p>15. 标字 Marking</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>1.</p> <div style="border: 1px solid black; padding: 2px;">YXC 12.0SBJ</div> </div> <div style="text-align: center;"> <p>2.</p> <div style="border: 1px solid black; padding: 2px;">             YXC — YANGXING Logo              12.0SBJ — Operating Temperature Code              — Frequency Code              — Production Line              — PPM Code              — PF Code           </div> </div> </div>				
16. 外形尺寸 Dimensions		3.2*2.5*0.70mm		
测试仪表 Equipment	250B Crystal Impedance Meter			

VII. SMD3225 晶体外型/编带尺寸 Dimensions UNIT: mm



	A	B	C	D	E	F	G
SMD3225	178±2.0	8.03±0.3	3.81±0.10	3.04±0.10	3.84±0.1	1.54±0.10	62.0±1.0
3000 pcs per reel							

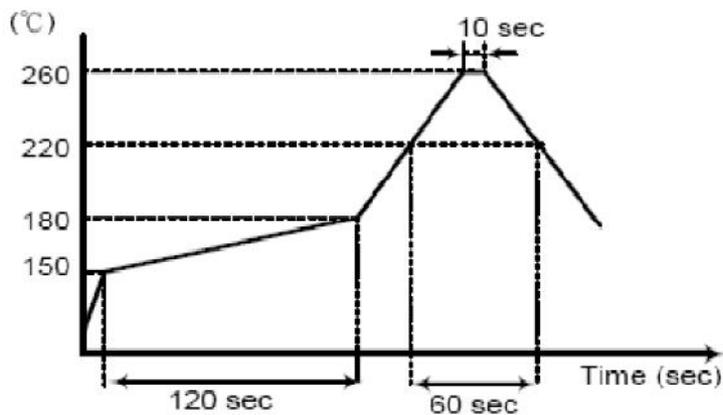
SMD3225 编带尺寸图 (mm)

● SUGGESTED REFLOW PROFILE (回流焊曲线图)

Total time:200sec.Max. (总时间: 200秒 最大)

Solder melting point:220°C (熔点220 °C)

Profiles Feature (特性)		Pb-Free Assembly
Average Ramp-up Rate(Ts max to Tp)	平均升温速度	3°C/second Max
Preheat	预热	
■ Temperature Min (Ts min)	最低温度	125°C
■ Temperature Max (Ts max)	最高温度	200°C
■ Time (ts min to ts max )	从最低到最高时间	(60~180) seconds
Time maintained above	维持上述时间	
■ Temperature(T1)	温度	217°C
■ Time(tp)	时间	(60~150) seconds
Peak/Classification Temperature(Tp)	最高点温度	260 °C
Time within 5°C of actual Peak Temperature(tp)	高温维持时间	(20~40) seconds
Ramp-down rate	降温速度	6°C/second max
Time 25°C to Peak Temperature	从25°C到最高温度的时间	8 minutes max
Suggest reflow times	建议 reflow次数	3 Times max



## ● RELIABILITY SPECIFICATIONS (信賴度試驗)

No	Test Item (測試項目)	Test Conditions (測試條件)	Reference (參考)
1	High Temperature High Humidity Storage (高溫、高濕、儲存)	Temperature: 85°C±3°C 溫度: 85°C±3°C Relative Humidity: 85%RH 相對濕度: 85%RH Time: 96 Hours 時間: 96小時	JIS C5023
2	High Temperature Storage (高溫儲存)	Temperature: 125°C±3°C 溫度: 125°C±3°C Time: 96 Hours 時間: 96 小時	MIL-STD-883E Method 1005.8
3	Low Temperature Storage (低溫儲存)	Temperature: -40°C±3°C 溫度: -40°C±3°C Time: 96Hours 時間: 96小時	MIL-STD-883E Method 1013
4	Thermal Shock (溫度沖擊)	Temperature1: -55°C±5°C 溫度1: -55°C±5°C Temperature2: 85°C±5°C 溫度2: 85°C±5°C Temperature change between T1 and T2 5 min T1和T2溫度在5分鐘內改變 10cycles maintain T1 and T2 for 30 minutes each mone cycle 每次循環30分鐘共10次	MIL-STD-202F Method 107 Condition A
5	RESISTANCE TO SOLDER HEAT (耐焊接熱)	Solder Temperature: 260°C±5°C 焊槽溫度: 260°C±5°C Time: 10±1 Seconds 時間: 10±1秒	MIL-STD-202F Method 210E
6	Solderability(可焊性)	The solder pot temperature is 245±5°C , dwell time 5±0.5sec 245±5°C 焊錫槽浸潤 5±0.5秒	J-STD-002B
7	Drop Test (落下試驗)	3 Times Free Fall from 75cm height table to 3cm thickness hard wood board 從75cm高度3次跌落到3cm厚硬質木板上	JIS C6701
8	MECHANICAL SHOCK (機械沖擊)	Half sine wave, 1000 G 半正弦波, 加速度 1000G 3 Times for all 3 directions X、Y、Z 三個相互垂直方向各三次	MIL-STD-202F Method 213B
9	Vibration (機械振動)	Frequency Range: 10Hz~55Hz 頻率範圍: 10Hz~55Hz Amplitude: 0.75mm 振幅: 0.75mm 2 Hours in each direction, total 6 Hours X、Y、Z 三個相互垂直方向各振動2小時	MIL-STD-883E Method 2007.3
10	Leakage Test (氣密性)	Take measurements with a helium Leakage detector 氦質檢漏 Leakage Rate ≤ 1×10 <sup>-3</sup> Pa cm <sup>3</sup> /s 漏率 ≤ 1×10 <sup>-3</sup> Pa cm <sup>3</sup> /s	MIL-STD-883E