

Lianyungang Macrobiz Co., Ltd.

www.macrobiz.com



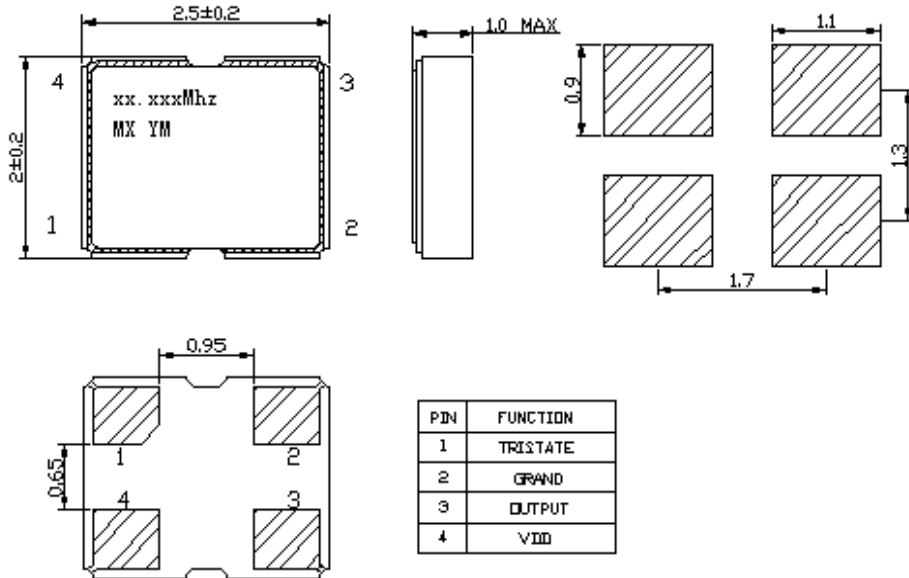
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Specifications of Oscillator 2.5x2.0

SMD OS22

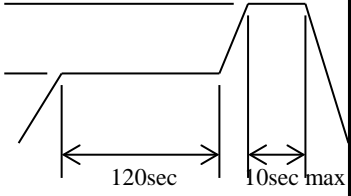
**DIMENSION AND MARKING**



**ELECTRICAL SPECIFICATION**

<b>TYPE</b>	: 2.5*2.0 SMD Oscillator	<b>Special Instructions:</b>  <b>Tape and Reel</b> <b>Rohs Compliant</b>
<b>Frequency Range</b>	: 1.000Mhz to 60Mhz	
<b>Frequency Stability</b>	: ±25ppm to ±50ppm	
<b>Supply Voltage</b>	: 5.0V or 3.3V ±10%	
<b>Operating Temperature Range</b>	: -10°C ~ +60°C or -40°C~ +85°C	
<b>Storage Temperature Range</b>	: -40°C ~ +85°C or -55°C~ +125°C	
<b>Symmetry (Duty Cycle)</b>	: 40/60 Standard	
<b>Output Load</b>	: 10TTL or 15pF HCMOS	
<b>Current Consumption (15pF only)</b>	: 1.0000~60.000Mhz : 15mA Max	
( 5.0V )		
<b>Current Consumption (15pF only)</b>	: 1.0000~60.000Mhz : 10mA Max	
( 1.8V, 2.5V, 2.85V, 3.3V )		
<b>Rise/Fall Time</b>	: 10nS Max	

**NOTE:**

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RELIABILITY			
NO	ITEM	CONDITIONS	BASIS OF VERDICT
1	DROP	High:100cm;Thickness:3cm;3tims	$\Delta FL \pm 5\text{ppm Max}$
2	VIBRATION	Frequency:10~57.7Hz: Amplitude: $\pm 0.75\text{mm}$ Frequency:57.7Hz~500Hz: acceleration rate: $98\text{m/s}^2$ Cycle time:10-500-10Hz: 15min Direction:X,Y, Z Duration: 2 h/direction	$\Delta FL \pm 5\text{ppm Max}$
3	TEMPERATURE SHOCK	$-40^{\circ}\text{C}\pm 2^{\circ}\text{C}(30\text{min})$ -- $85^{\circ}\text{C}\pm 2^{\circ}\text{C}(30\text{min})$ ;For 10 cycles	$\Delta FL \pm 5\text{ppm Max}$
4	HUMIDITY	Temp: $40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ;Humidity:90-95%;Times:96h	$\Delta FL \pm 5\text{ppm Max}$
5	COLD RESISTANCE	Temp: $-40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ;Times:96h	$\Delta FL \pm 5\text{ppm Max}$
6	HEAT RESISTANCE 1	Temp: $100^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ;Times:96h	$\Delta FL \pm 5\text{ppm Max}$
7	HEAT RESISTANCE 2	Temp: $155^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ;Times:2h	$\Delta FL \pm 5\text{ppm Max}$
8	HEAT RESISTANCE 3	Temp: $85^{\circ}\text{C}\pm 2^{\circ}\text{C}$ ; Voltage:3.3V / 5.0V Times:96h	$\Delta FL \pm 5\text{ppm Max}$
9	REFLOW	$270^{\circ}\text{C}\pm 5^{\circ}\text{C}$ $150^{\circ}\text{C}\pm 5^{\circ}\text{C}$  CYCLE TIME: 200sec Max.	$\Delta FL \pm 5\text{ppm Max}$
10	AGING	Temp: $85^{\circ}\text{C}$ ;Times:30days	$\Delta FL \pm 5\text{ppm Max}$
11	LEAKAGE	He(0.6~0.65MPa):10min	$3*10^{-9}\text{Pa.m}^3/\text{s Max}$
12	SOLDER	Temp: $235^{\circ}\text{C}\pm 5^{\circ}\text{C}$	$\Delta FL \pm 5\text{ppm Max}$

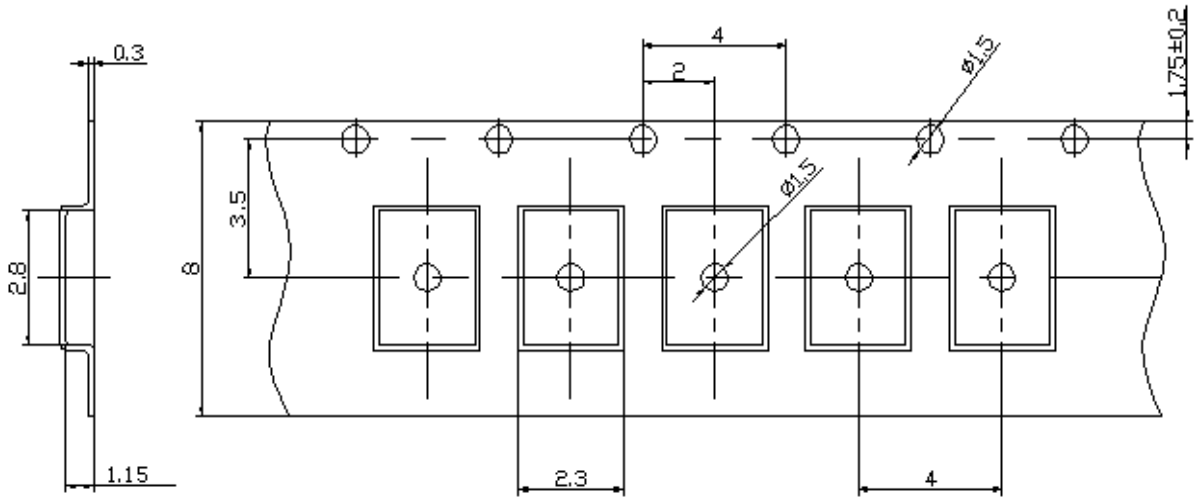
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Specifications of  
Oscillator 2.5x2.0 SMD  
OS22

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### Tape



### Reel

