



Issue	December 21, 2024
Rev.	1.0
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# CRYSTAL UNIT SPECIFICATIONS

**客户批准 Customer Approval**

(请批准后回签一份 **Please Return A Copy With Approval**)

<b>Customer</b>	
<b>Customer P/N</b>	
<b>Product</b>	<b>CRYSTAL RESONATORS</b>
<b>Spec</b>	<b>PMX308/7.3728~90.000MHz</b>
<b>A-Crystal P/N</b>	<b>AMR Series</b>

<b>Drawn</b>	<b>Checked</b>	<b>Approved</b>
<i>Caoqiaobang</i>	<i>Fengying</i>	<i>Tanqlong</i>



## 1. ELECTRICAL SPECIFICATIONS

### 1.1 Hold Type: PMX-308

No.	Item	Symb	Electrical Specification				Remark
			Min.	Type	Max.	Units	
1	Nominal Frequency	F0	7.3728	-	90.00	MHz	
2	Mode of Vibration	<span style="background-color: black; color: black;">■</span> Fundamental $\triangle$ 3rd Overtone $\triangle$ 5th Overtone					
3	Frequency Tolerance	$\Delta F/F0$	$\pm 20$	$\pm 30$	$\pm 50$	ppm	at 25°C $\pm$ 3°C
4	Operating Temperature Range	T <sub>OPR</sub>	-20 -40	-	+70 +85	°C	
5	Frequency Stability	T <sub>C</sub>	$\pm 30$	-	$\pm 50$	ppm	
6	Storage Temperature	T <sub>STG</sub>	-55	-	+125	°C	
7	Load capacitance	CL	6~specify			pF	
8	Equivalent Series Resistance	ESR	Seepage 1			$\Omega$	
9	Drive Level	DL	-	100	200	$\mu$ W	
10	Insulation Resistance	IR	500	-	-	M $\Omega$	At 100V <sub>DC</sub>
11	Shunt Capacitance	Co	-	-	5	pF	
12	Aging Per Year	Fa	-5	-	+5	ppm	First Year
13	Package type	12.5*4.6*3.8					

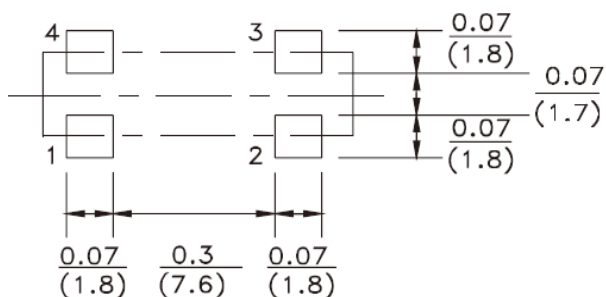
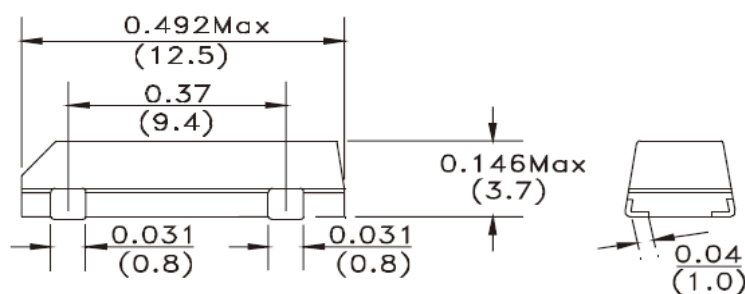
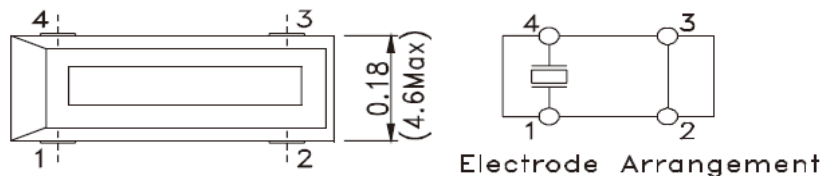
#### Seepage1

Frequency Range	Mode	ESR ( $\Omega$ )	Frequency Range	Mode	ESR ( $\Omega$ )
7.3728MHz $\leq$ F0 $\leq$ 10.0MHz	Fund	100 Max	16.10MHz $\leq$ F0 $\leq$ 20.0MHz	Fund	40 Max
10.100MHz $\leq$ F0 $\leq$ 12.0MHz	Fund	80 Max	20.100MHz $\leq$ F0 $\leq$ 30.0MHz	Fund	30 Max
12.100MHz $\leq$ F0 $\leq$ 13.0MHz	Fund	60 Max	30.100MHz $\leq$ F0 $\leq$ 90.0MHz	OT	100 Max
13.10MHz $\leq$ F0 $\leq$ 16.0MHz	Fund	50 Max			

注: ROHS

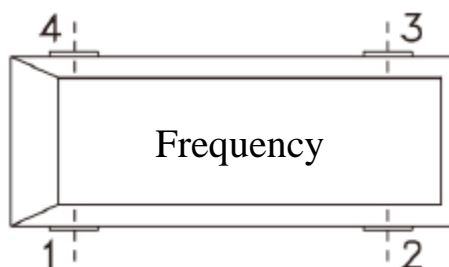


### 1.2 Dimension (Unit: mm)



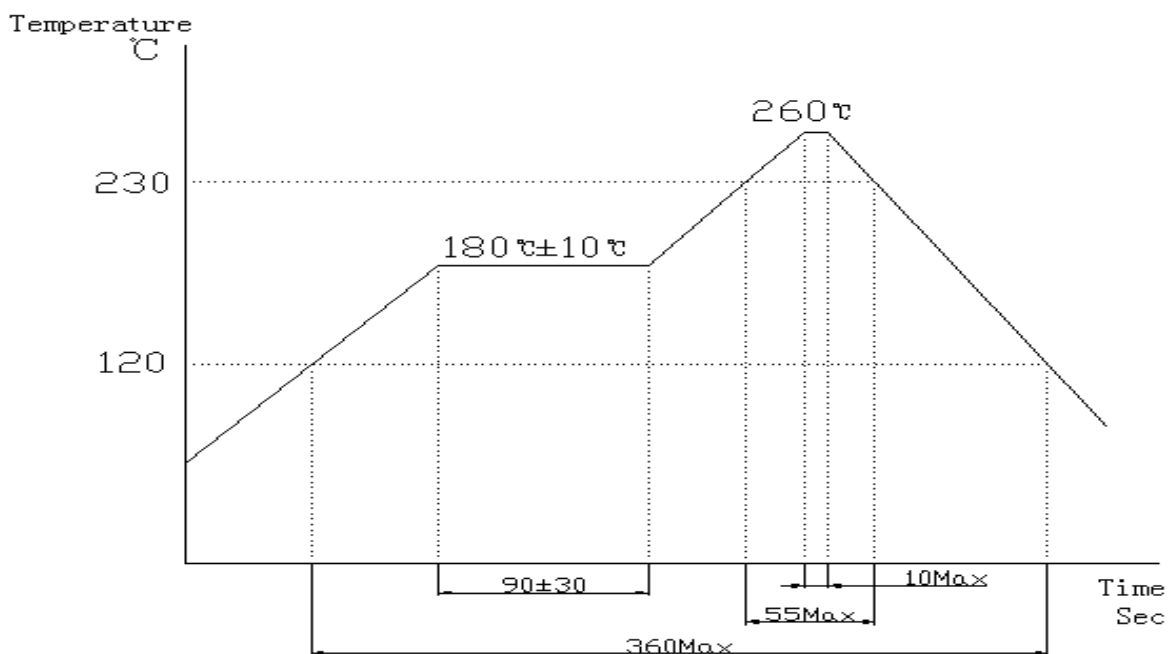
**Note:** Metal may be exposed on the top or bottom of this product this will not affect any quality reliability or electrical spec

### 1.3 Marking



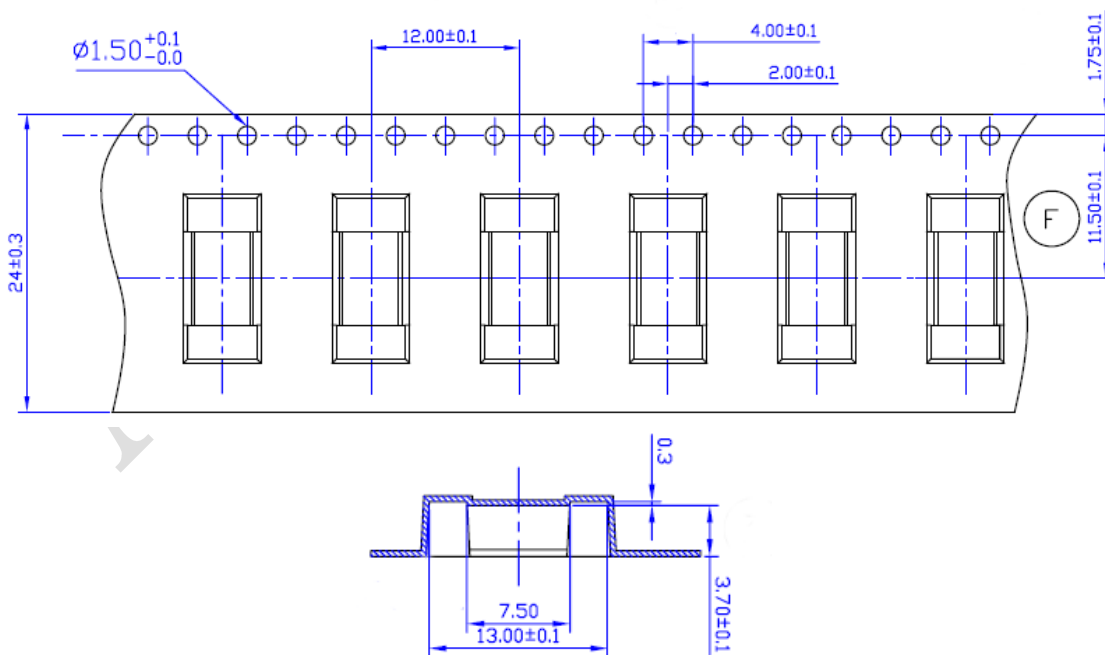


### 1.4 Reflow solder



## 2. Packing

### 2.1 Packing Method Sketch Map (Unit: mm)

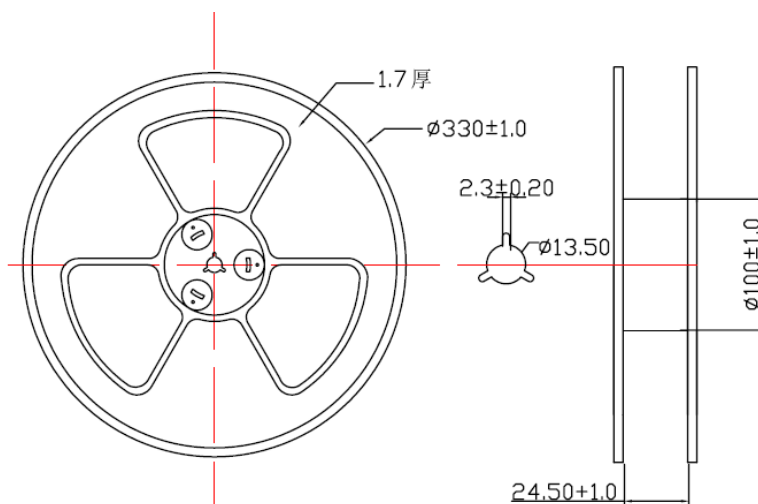




**ZHEJIANG A-CRYSTAL**  
**ELECTRONIC TECHNOLOGY CO., LTD.**



## 2.2 Reel Dimensions (Unit: mm)



Pieces per reel: 1000/reel

## 3. Products Code

### 3.1 SMD Crystal Resonators/MHz

公司代码 浙江一晶	产品型号 (2位)	工作频率 (全频点位数)	负载电容 (1位字母)	调整频差 (1位字母)	温度频差 (1位字母)	工作温度 (1位字母)	其它
A-crystal Logo	Package	Nominal Frequency	Load Capacitance	Frequency Tolerating	Freq Temp Characteristics	Operating Temperature Range	Others
A	MR (PMX308)	8.000M	无穷大=000	01=5PPM	T=-0.034± 0.006ppm/(°C) <sup>2</sup>	1=0~50	Special
		12.000M	9PF=009	02=10PPM	A=10PPM	2=-10~60	
			12PF=012	03=20PPM	B=15PPM	3=-10~70	
			12.5PF=125	04=30PPM	C=20PPM	4=-20~70	
				05=40PPM	D=25PPM	5=-30~85	
				06=50PPM	E=30PPM	6=-40~85	
					F=50PPM	7=-40~105	
						8=-40~125	