

1. QUARTZ CRYSTAL UNIT SPECIFICATION

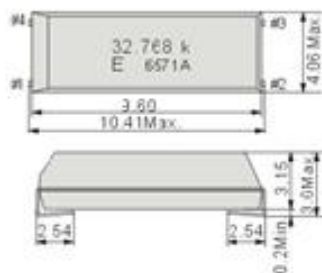
Item	Symbol	Specifications				Remark
		Min	Type	Max	Units	
1. Production type		Quartz Crystal Resonator				
2. Holder		WTL4W10336				
3. Mode of oscillation		<input checked="" type="checkbox"/> Fundamental <input type="checkbox"/> 3 Overtone <input type="checkbox"/> 5 Overtone				
4. Frequency	FL	16.000		MHz		
5. Load capacitance	CL	12.5		pF		
6. Frequency tolerance	Tol	±20		ppm	at 25°C ± 3°C	
7. Equivalent resistance	Rs	80		Ω	Max.	
8. Working temperature range	TR	-40 ~ 85		°C		
9. Freq. Temp. Characteristics	TC	± 30		ppm	working temperature ΔF	
10. Drive level	DL	100		μW	Max.	
11. Shunt Capacitance	CO	5		pF	Max.	
12. Storage temperature range		-40 ~ 85		°C		
13. Insulation resistance		500		MΩ	Min.	
14. Measure Circuit		S&A 250B			π network	
15. Aging		5		ppm/Yr	Max.	

※ **This product doesn't include harmful substance that stipulated by RoHS**

1.2 DIMENSION Unit:mm

External dimensions

• **PMX-405 / 406** (Unit:mm)



Internal connection in PMX-405



Internal connection in PMX-406

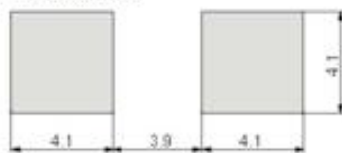


Do not connect #2 and #3 to external device.
 The first digit of N o. Means: 5xxxx PMX-405
 6xxxx PMX-406

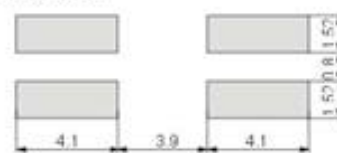
Footprint(Recommended)

(Unit:mm)

• **PMX-405**

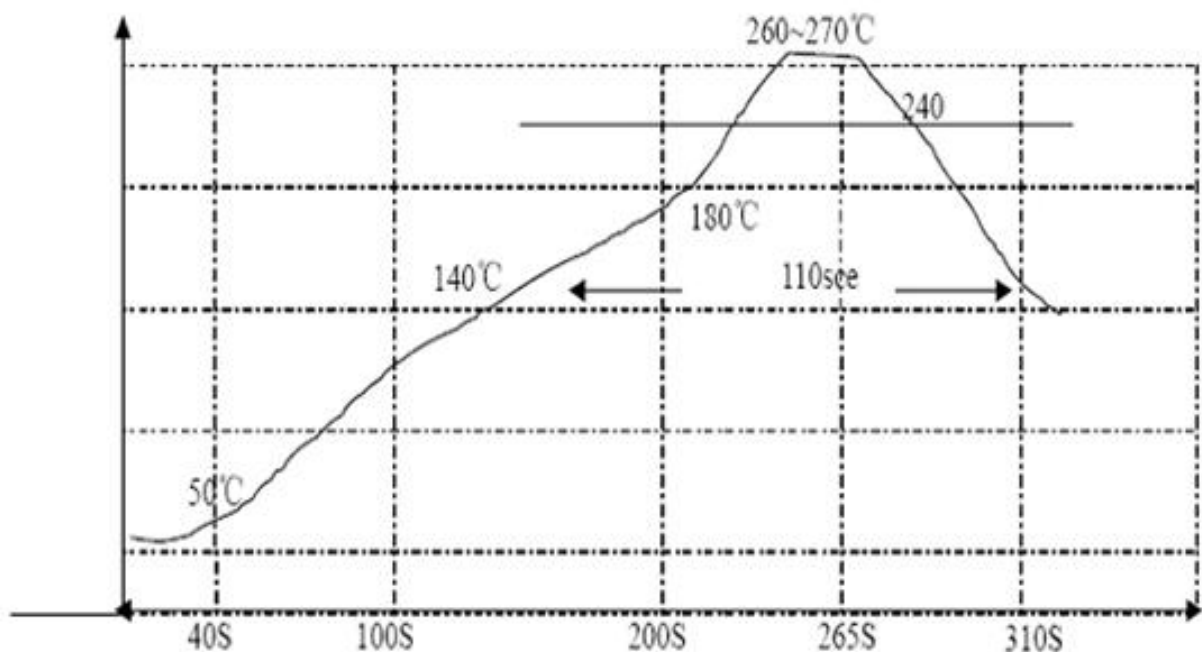


• **PMX-406**



1.3 Reflow

温度 (0°C)



2. TEST STANDARD

2.1 GENERAL ELECTRICAL CHARACTERISTICS AND VISUAL TESTING

2.1.1 LOT CLASSIFICATION : If the quantity is 1,000 pcs or more, 1,000 pcs is one lot.

2.1.2 SAMPLING TEST METHOD : MIL-STD-105E G-II

2.1.3 TEST LEVEL

- A) HIGH LEVEL DEFECT : AQL 0.065% [200 PCS]
- B) MEDIUM LEVEL DEFECT : AQL 0.25% [50 PCS]
- C) LOW LEVEL DEFECT : AQL 0.4% [32 PCS]

2.1.4 DEFECT CLASSIFICATION

A) HIGH LEVEL

- @NO FREQUENCY
- @MIXING
- @LEAK DEFECT

B) MEDIUM LEVEL – ELECTRICAL CHARACTERISTIC DEFECT

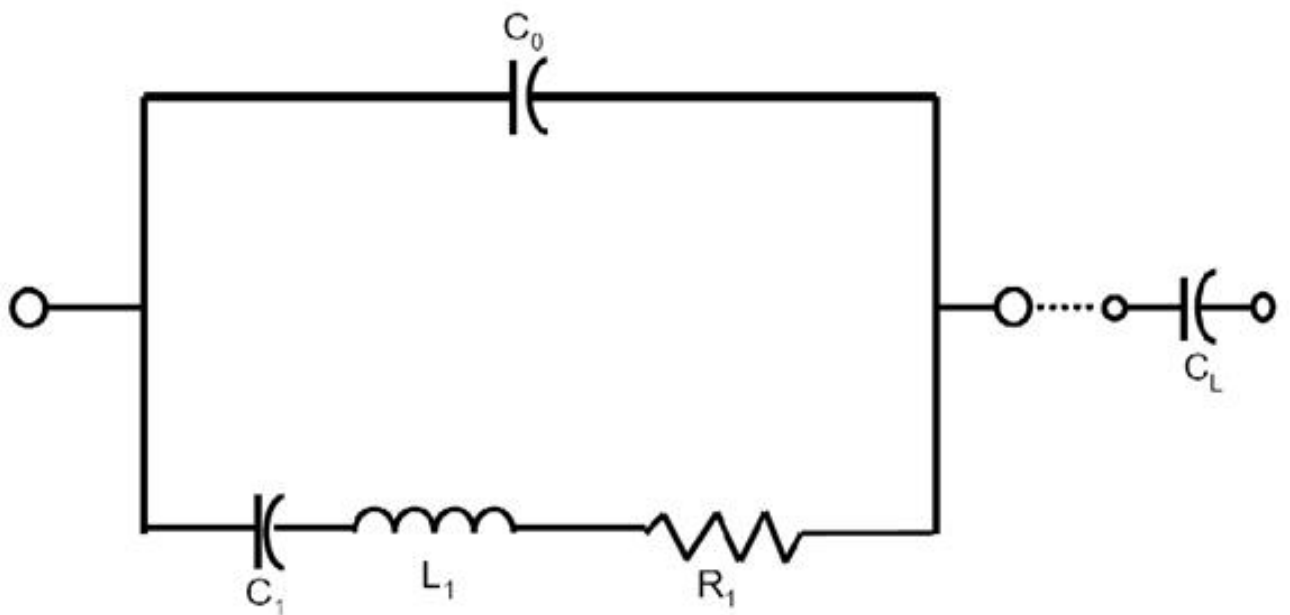
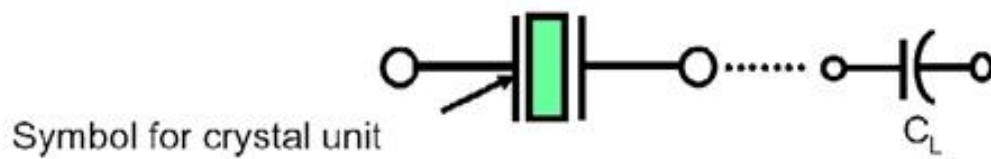
- @FREQUENCY
- @OSCILLATION
- @ELECTRICAL CURRENT
- @OTHER ELECTRICAL CHARACTERISTICS DEFECT

C) VISUAL

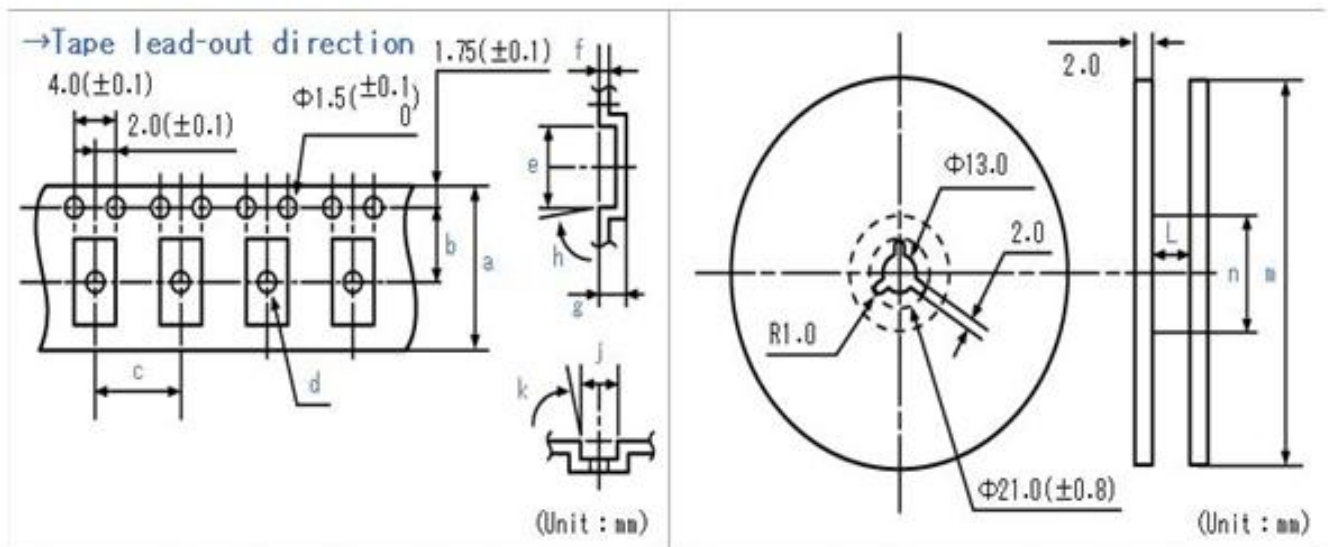
- @MARKING
- @WELDING
- @LEADS
- @OTHER VISUAL DEFECT

TESTING METHOD AND ITS STANDARD CAN BE MODIFIED DEPENDING ON THE CUSTOMER'S REQUEST.

2.2 EQUIVALENT CIRCUITS



4. Packing



Quantity (pcs / reel)	a	b	c	d (Φ)	e	f	g	h (Max.)	j	k (Max.)	L	m (Φ)	n (Φ)
1,000	24.0	11.5	12.0	2.2	12.8	0.4	3.9	3°	4.8	3°	25.5	330	100

4.2 PACKAGING METHOD

4.2.1 TAPE & REEL AS SHOWN IN ABOVE DIMENSION,

4.2.2 INSERT 1,000 PCS OF TAPE & REEL COVERED WITH SHOCK ABSORBANT PAD INTO THE INNER BOX(INNER BOX SHOULD HAVE DESCRIPTION OF THE PART CONTAINED) AS SHOWN IN PICTURE1.

INNER-BOX CAN ACCOMODATE UPTO 1,000PCS.[PICTURE2]

4.2.3 INSERT SHOCK-ABSORBANT PAD ON ALL SIDES(INCLUDING TOP), AND THEN INSERT UPTO 5 INNER BOXES INTO THE OUTER BOX. [PICTURE3]

4.2.4 ON THE INNER-BOX COVER, LABEL CONTENTS OF THE BOX(FREQUENCY, LOAD CAPACITANCE, AND QUANTITY).

4.2.5 TO PREVENT INNER-BOX COVER OPENING DUE TO SHOCK, FASTEN THE COVER WITH A CLEAR TAPE AS SHOWN IN PICTURE4.



PICTURE1



PICTURE2



PICTURE3



PICTURE4