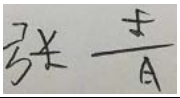
Vendor PN:15091-X-263-3

RoHS Compliant

APPROVAL SHEET

Issued No. :

DESCRIPTION	:	**SMD 3225 CRYSTAL**
NOMINAL FREQ.	:	**40.000000 MHz**
TAITIEN P/N	:	**15091-X-263-3**
TAITIEN MODEL	:	**XXACCLNAOF-40.000000MHz**
REVISION	:	**1**
DATE	:	**05/06/2021**

QA	Checked	Prepared
		

CUSTOMER :

CUSTOMER P/N :

Customer Signature
Approved:
Date:

REVISION HISTORY

Rev.	Revised Page	Revision Content	Date	Ref. No.	Reviser
01	N/A	Initial Released	05/06/2021	N/A	Y.P.Ma

CONTENT

■ ELECTRICAL SPECIFICATIONS

	Parameter	Min.	Typ.	Max.	Units	Test Condition
1-1	Nominal Frequency		40.000000		MHz	
1-2	Frequency Tolerance.	-20		+20	ppm	at 25℃+/-2℃
1-3	Operating Temperature range	-40		+85	°C	
1-4	Storage Temperature range	-55		+125	°C	
1-5	Temperature Characteristics	-20		+20	ppm	-40℃ to +85℃
1-6	Nominal Load Capacitance		8		pF	
1-7	Series Resistance			50	Ω	
1-8	Shunt Capacitance			3	pF	
1-9	Motion Capacitance				fF	
1-10	Motion Inductance				mH	
1-11	Q factor				K	
1-12	Spurious Response				dB	
1-13	Frequency Pull ability				ppm/pF	
1-14	C0/C1 Ratio					
1-15	Aging	-3		+3	ppm/year	
1-16	Insulation Resistance		500MΩ Min. @ DC100V			
1-17	Nominal Drive Level		10		μW	into 10Ω
1-18	Dependency Condition				μW	
1-19	Drive Level Dependency Resistance Max. Minus Min.				Ω	
1-20	Drive Level Dependency Frequency Max. Minus Min.				ppm	
1-21	Drive Level Dependency Resistance Max.				Ω	

■ CUSTOMER SPECIAL REQUIREMENT

2-1	

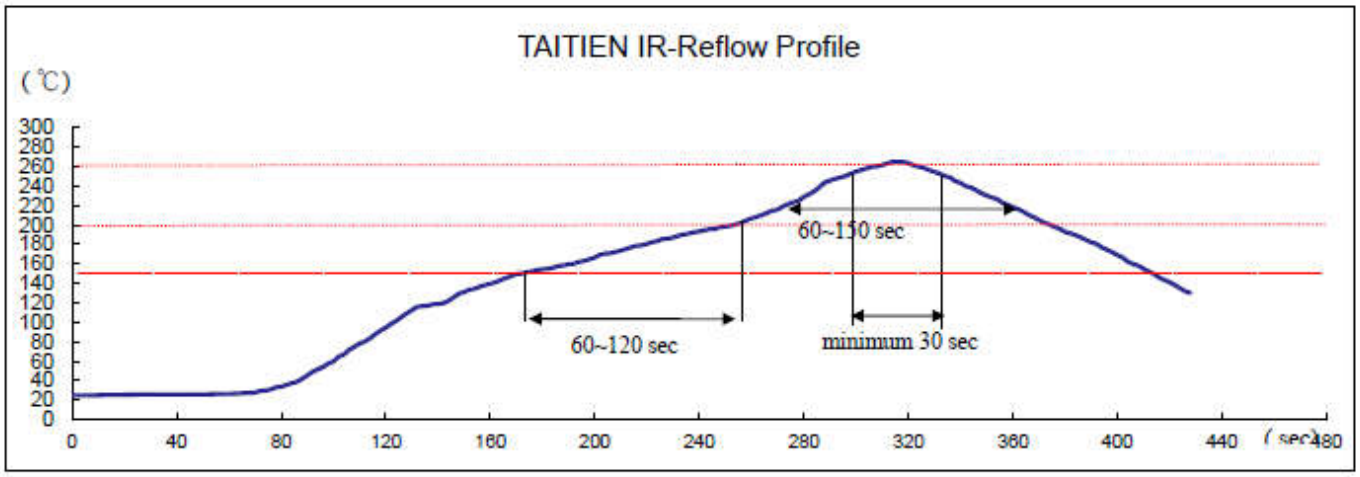
■ ENVIRONMENTAL

Standard and Results Test Items	Standard Information	
	Test standard	Reference standard
Aging Test	85 ± 2 ℃, constant temperature of 720 ± 2h, and test after standing at room temperature for 2h	GB/T-12273
High Temperature Storage Test	The temperature was 125 ± 2 ℃, 500 ± 2h, and the test was conducted after being placed at room temperature for 2h	MIL-STD-202 Method 108
Low Temperature Storage Test	Temperature -40 ± 2 ℃, 500 ± 2h, and then tested after being placed at room temperature for 2h	MIL-STD-883 Method 1013
Hot and Cold Shock Test	Temperature -55 ± 2 ℃ ~ 125 ± 2 ℃, constant temperature for 30min, temperature rise and fall time less than 15s, 100 cycles, and test after standing at room temperature for 2h	MIL-STD-202 Method 107 Condition A
Vibration Resistance Test	Double amplitude: 1.5mm ± 15%; vibration frequency: 10-55hz; vibration direction: X, y, Z, vibration in each direction for 2h; test after standing at room temperature for 2h	MIL-STD-202 Method 204
Salt Spray Test	The mass ratio (salt: distilled water = 5 ± 1%: 95%); temperature: 35 ± 2 ℃ (pH: 6.5-7.2); storage time: 48 ± 2 h; the products were inclined at an angle of 15-30 ° and could not be contacted with each other. After the test, clean it with pure water and observe the test after drying for 2h.	MIL-STD-202 101D

■ RECOMMENDED IR REFLOW PROFILE

➢ IR REFLOW PROFILE OF CERAMIC SMD PRODUCTS FOR Pb FREE PROCESS

TAITIEN ELECTRONICS CO., LTD.



Reference Standard: JEDEC-STD 020

Test conditions: Pre-heating : 150℃ to 200℃, 60~120secs.

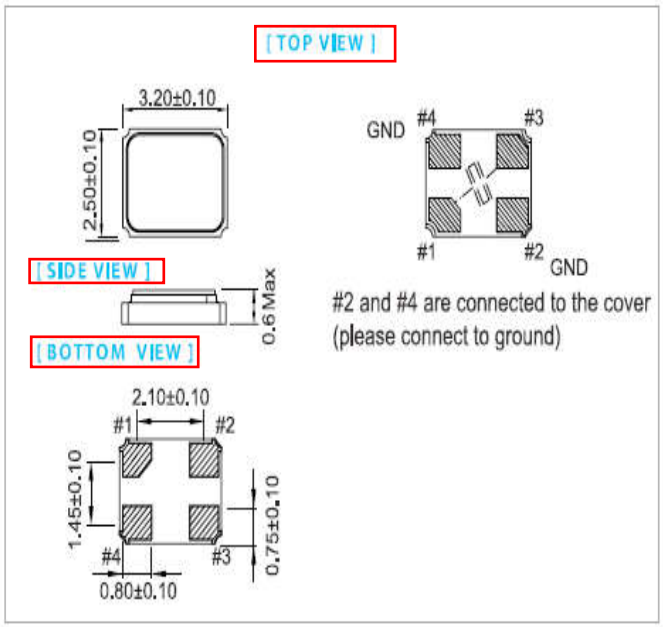
Heating : 217℃, 60~150sec.

Peak temperature at least : 260℃, The time above 255 ℃ : minimum 30sec.

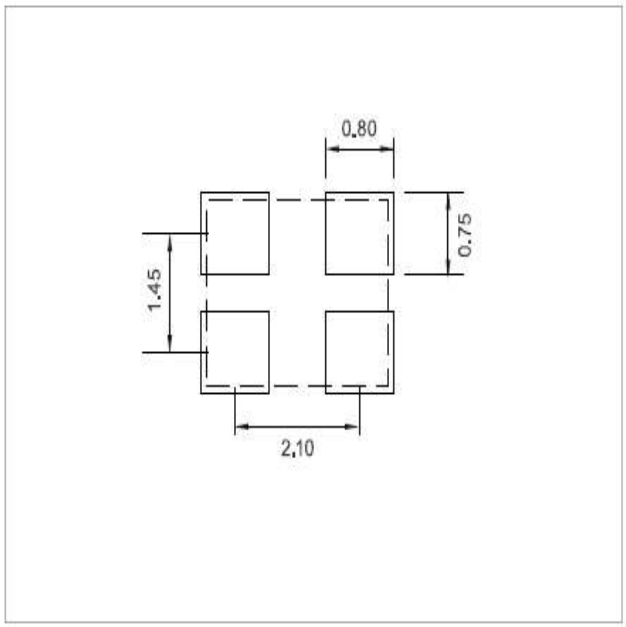
■ PRODUCT DIMENSIONS

➢ DIMENSIONS

DIMENSION (mm)

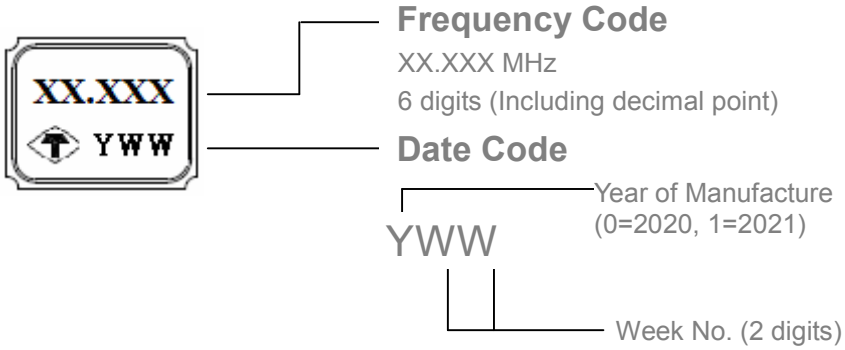


SOLDER PAD LAYOUT (mm)



■ PRODUCT IDENTIFICATION (MARKING)

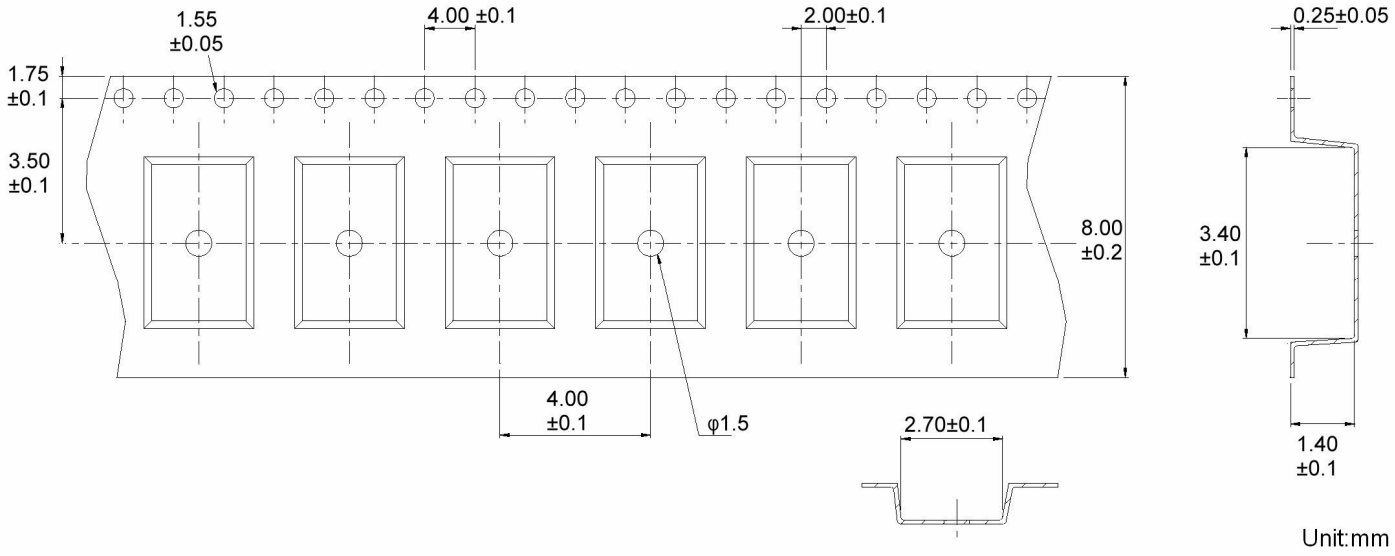
➢ PROCEDURE: LASER



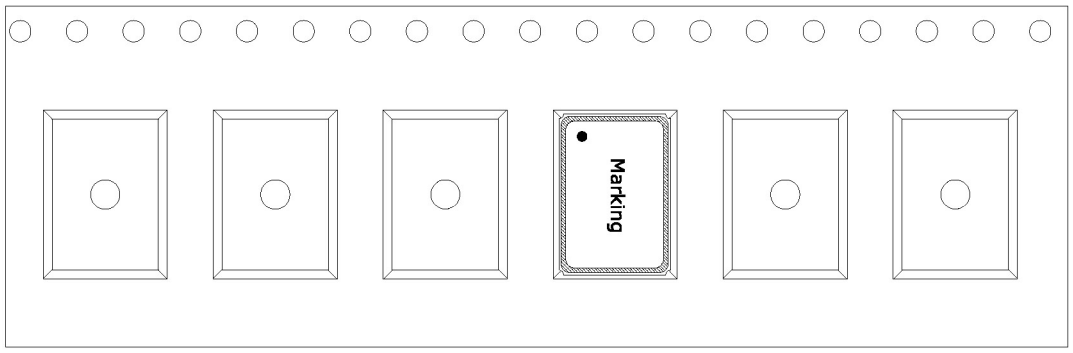
➢ FOR EXAMPLE:

■ PACKAGE INFORMATION

➢ TAPE (CARRIER) DIMENSIONS



➢ THE DIRECTION OF PACKING



➢ REEL DIMENSIONS