

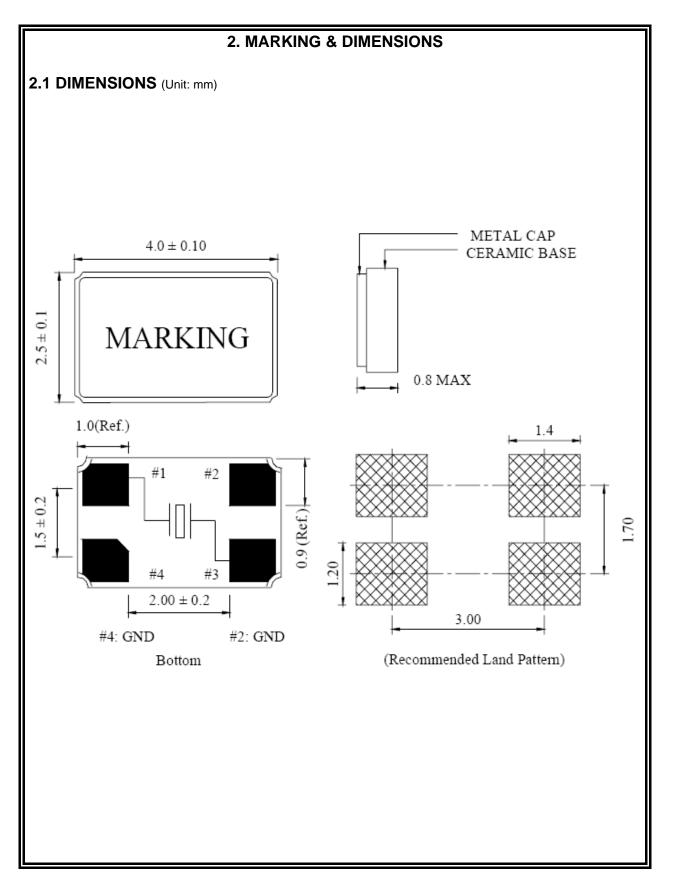
SMD Quartz Crystal Resonator

1. QUARTZ CRYSTAL UNIT SPECIFICATION

ltem	Symbol	Specifications			Remark	
		Min	Туре	Max	Units	Keinaik
1. Production type		SMD Quartz Crystal Resonator				
2. Holder		SMD 4025				Seam Seal
3. Mode of oscillation		■ Fundamental □ 3 Overtone □ 5 Overtone				
4. Frequency	FL	27	27.000000		MHz	
5. Load capacitance	CL	20		pF		
6. Frequency tolerance	Tol		± 20		ppm	at 25℃ ± 3℃
7. Equivalent resistance	Rs		50		Ω	Max.
8. Working temperature range	TR	-1	$ 0 \sim 7$	' 0	°C	
9. Freq. Temp. Characteristics	тс		± 20		ppm	working temperature ΔF
10. Drive level	DL		100		μW	
11. Shunt Capacitance	C0		5		pF	
12. Storage temperature range		-4	$40\sim 8$	85	°C	
13. Insulation resistance			500		ΜΩ	Min.
14. Measure Circuit		S	&A 250	В		π network
15. Aging			5		ppm/Yr	Max.
※ This product doesn't include harmful substance that stipulated by RoHS						

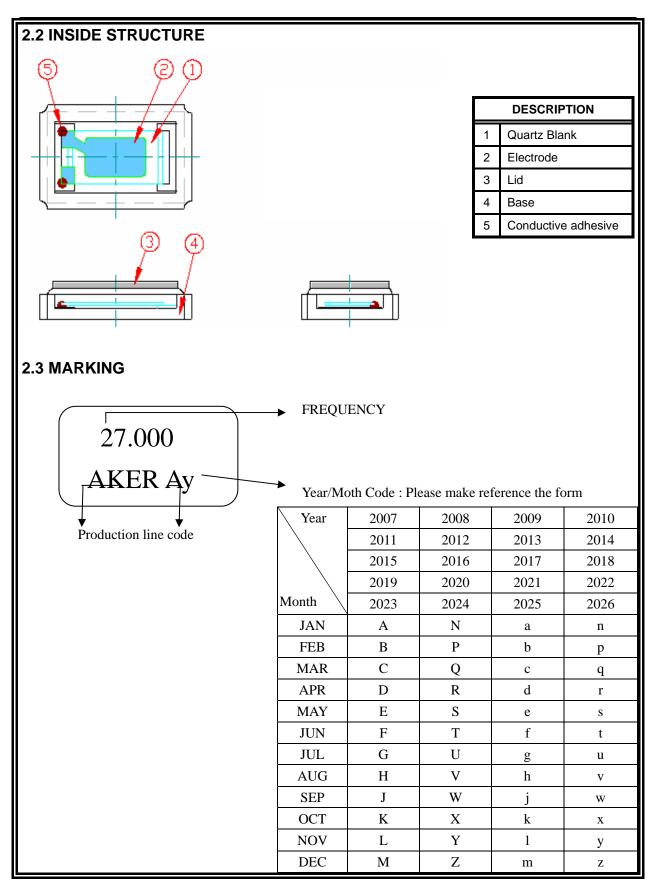


SMD Quartz Crystal Resonator





SMD Quartz Crystal Resonator





SMD Quartz Crystal Resonator

3. CHARACTERISTICS

Units and values indicated with { } in this specification are the former units and the specified values.

Standard atmospheric conditions:

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests is as follows:

Ambient temperature: 15° C to 35° C

Relative humidity : 25% to 85%

Air pressure : 86 to 106 kPa

If there is any doubt about the results, measurements shall be made within the following limits:

Ambient temperature : 25°C±1°C

Relative humidity : 63% to 67%

Air pressure : 86 to 106 kPa

Operating temperature range:

The operating temperature range is the range of ambient temperatures at which the quartz crystal oscillator can be stored without damage. Conditions are as specified elsewhere on these specifications.

Operating temperature range: -10℃ to +70℃

Storage temperature range:

The storage temperature range is the range of ambient temperatures at which the quartz crystal oscillator can be stored without damage. Conditions are as specified elsewhere on these specifications.

Storage temperature range: -40 $^\circ\!\mathrm{C}$ to +85 $^\circ\!\mathrm{C}$



SMD Quartz Crystal Resonator

3.1 Mechanical characteristics

Provided that measurement shall be carried out after letting it alone in the room temperature for 1h.

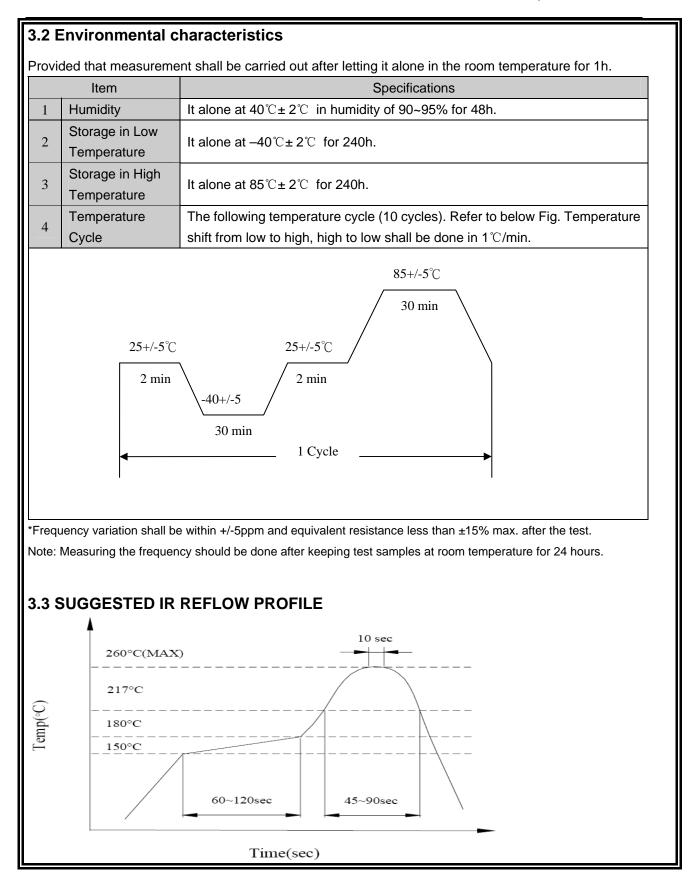
Item		Specifications				
1	Drop Test	Dropping 3 times from the height of 75cm onto hard wooden board of thickness more than 30mm.				
2	Mechanical Shock	Devices are shocked to half sine wave (1000 G) three mutually perpendicular axes each 3 times.				
3	Vibration	(1) Vibration Frequency	10~55Hz			
		(2) Cycle	1 to 2 min			
		(3) Amplitude	1.0mm			
		(4) Direction	X.Y.Z			
		(5) Time	2hr for each direction			
4	Solderability	MIL - STD - 20E Method 208C				
		Temperature 245℃±5℃				
		Material H63A (Silver 2 ~ 3 %)				
		Immersion depth 0.5 n	mersion depth 0.5 mm minimum			
		Immersion time 3 ± 0	3 ± 0.5 seconds			
		Flux Rosii	n resin methyl alcohol solvent (1:4)			
5	Resistance to Soldering Heat	MIL - SLD -202, Method 210, Condition I or J 10 sec immersion into 260 \pm 5°C solder pot, above 180°C is 90 ~ 120 sec.				

*Frequency variation shall be within +/-5ppm and equivalent resistance less than ±15% max. after the test.

Note: Measuring the frequency should be done after keeping test samples at room temperature for 24 hours.

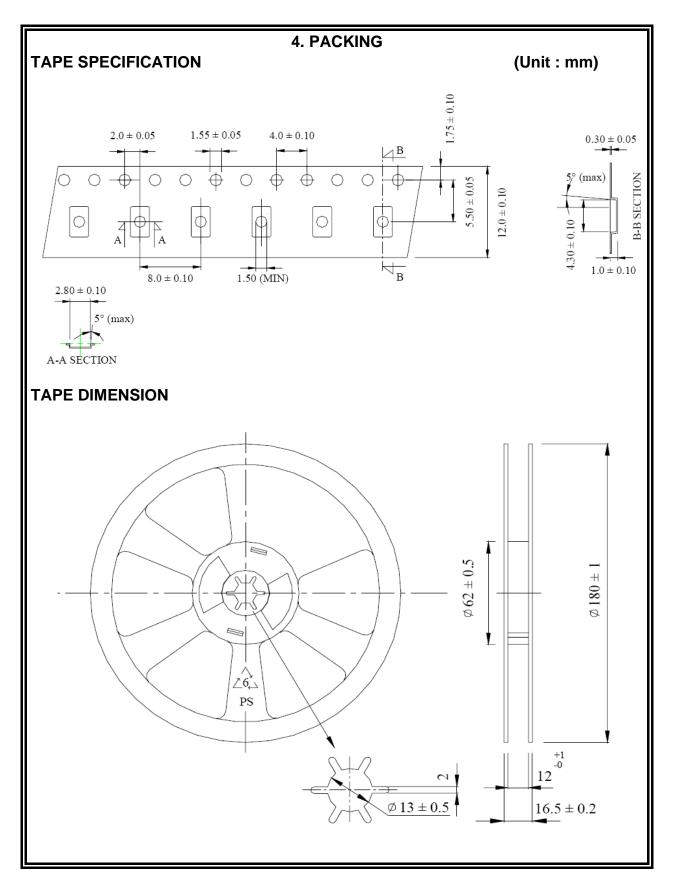


SMD Quartz Crystal Resonator





SMD Quartz Crystal Resonator





SMD Quartz Crystal Resonator

