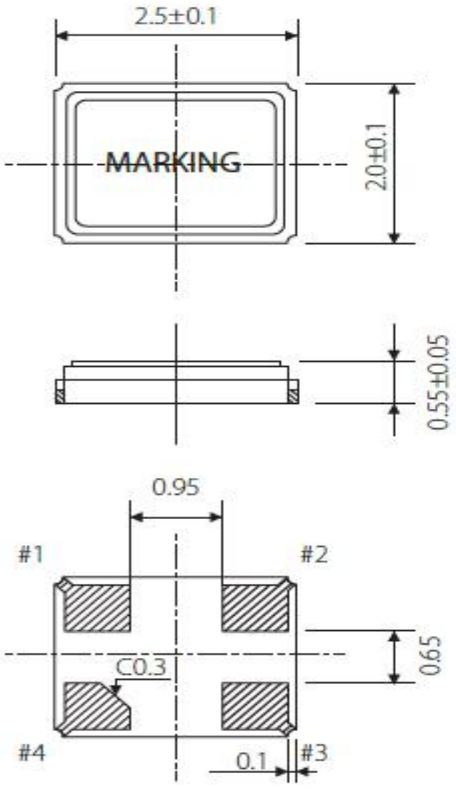
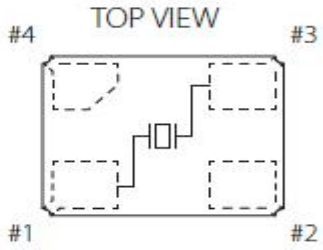
Victorlands **Technical Specification**

Product name	**Quartz crystal unit**
Model	**2520/19.200MHz**
Product code	**K2C19200F0H4B2**
Product parameters	7PF/±10PPM
Product reliability	P．2-5
Packing form	P．6

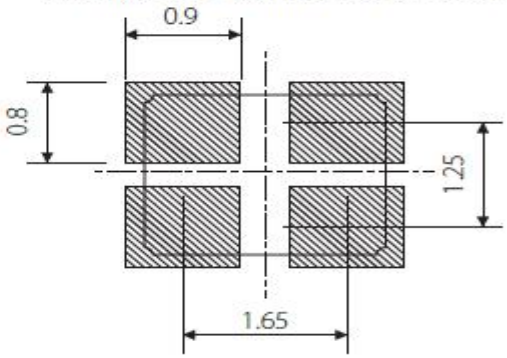
1. Frequency:	19.**200** MHZ
2. Holder Type:	SMD2.5*2.0
3. Frequency Tolerance:	±**10**ppm at 25℃±3℃
4. Equivalent Series Resistance:	60Ω Max
5. Storage Temperature Range:	-40℃ ～ +85℃
6. Operating Temperature Range:	-40℃ ～ +85℃
7. Frequency Characteistics Over Temperatnre:	±20ppm -40℃～+85℃
8. Load Capacitance (CL):	7 PF
9. Drive Level:	100μW
10. Shunt Capacitance:	5PF MAX
11. Insulation Resistance:	≥500MΩ Min at 100 V
12. Mode Of Oscllation:	Fundamental
13. Aging:	±3ppm/Year
Marking description:	KYX19.200
14. Dimensiors(mm):	



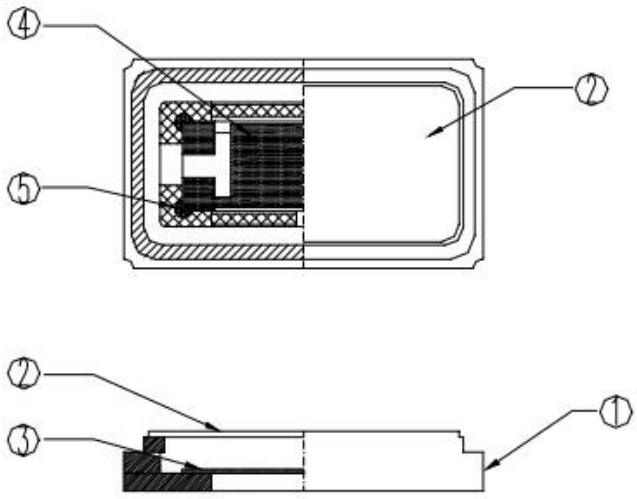


• #1,#3 : Crystal terminal / #2,#4 : Connected to cover (Please connect it with GND.)

Example of a Terminal Land Pattern



16.Structure Illustration



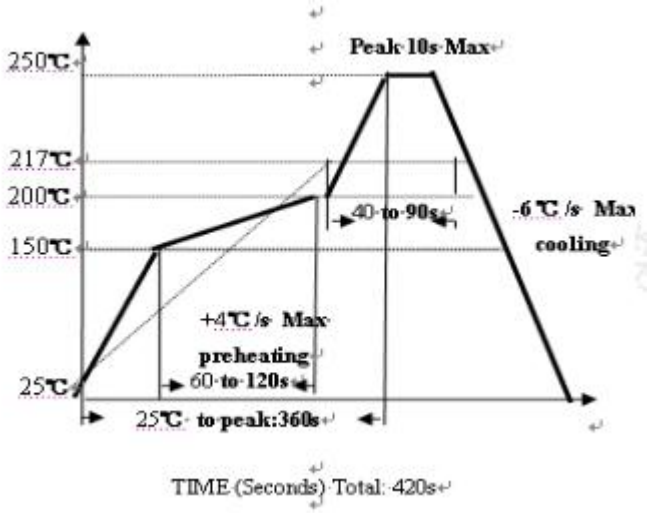
PART NAME		MATERIAL	PART NAME		MATERIAL
1.	BASE	CERAMIC	4.	ELECTRODE	Metal
2.	LID	Co	5.	ADHESMES	SILVER GLUE
3.	BLANK	QUARTZ			

Reliability Testing

Project	Test conditions and requirements	Request
Vibration	Endurance condition by a frequency sweep shall be made. The entire frequency range from 10HZ to 50HZ and return to 10HZ, shall be transverseb in 1min. Amplitude(total excursion):1.5mm this motion shall be applied for a period of 2h each of 3 mutually perpendicular axes(a total of 6h)	(1). FL:+/-10ppm (2). Rr:+/-10Ω
Drop	Form 70cm height 3 times on 3cm hard wooden floor	
Shock	Peak acceleration:981m/s^2 duration of the pulse :6ms three successive shocks shall be applied in both direction of 3 mutually perpendicular axes(a total of 18 shocks)	(1). FL:+/-10ppm (2). Rr:+/-10Ω
Damp heat, constant	The unit shall be stored at a temperature of 40℃±2℃with relative humidity of 90%to95% for 48h, then it shall be subjected to standard atmospheric conditions for 1～2h after which measurement shall be made.	
Cold	The unit shall be stored at a temperature of-40℃±5℃ for 48h, then it shall be subjected to standard atmospheric conditions for 1～2h after which measurement shall be made.	
Dry heat	The unit shall be stored at a temperature of 100℃±5℃ for 24h, then it shall be subjected to standard atmospheric conditions for 1～2h after which measurement shall be made.	
Aging	The unit shall be stored at a temperature of 85℃±5℃ for 7d then it shall be subjected to standard atmospheric conditions for 1～2h after which measurement shall be made.	
Temperature cycling	The unit shall be subjected to 5 successive change of temperature cycles, each as show in table below, then it shall be subjected to standard atmospheric conditions for 1～2h after which measurement shall be made	

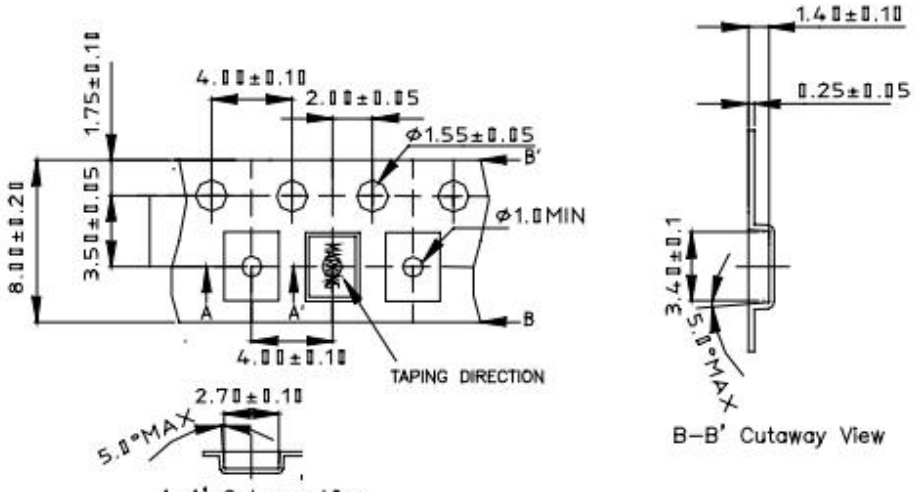
	Temperature	Duration
1	-40℃±3℃	30min
2	Standard atmospheric conditions	Within 30s
3	100℃±3℃	30min
4	Standard atmospheric conditions	Within 30s

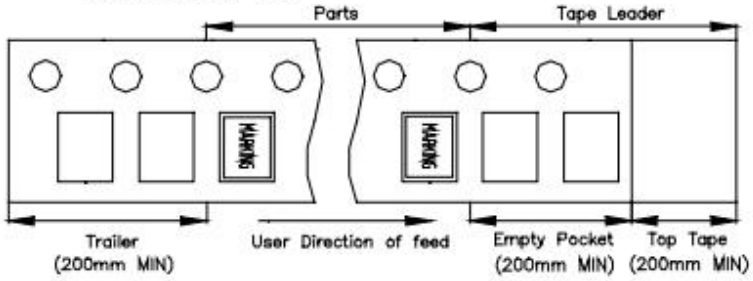
Resistance to soldering heat



■ PACKING

1. CARRIER TYPE





2. REEL : 3000 PCS