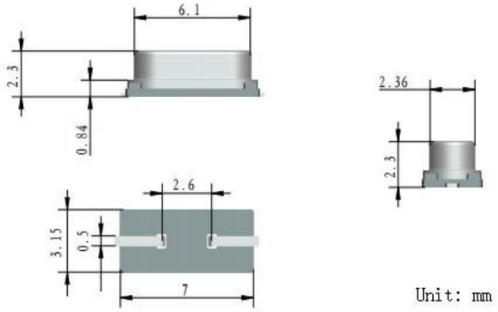
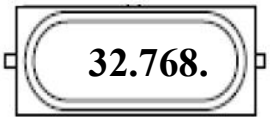
Victorlands **Technical Specification**

Product name	**Quartz crystal unit**
Model	**3068/32.768KHz**
Product code	**K2N32768L5H2B2**
Product parameters	12.5PF/±10PPM
Product reliability	P．2-4
Packing form	P．4

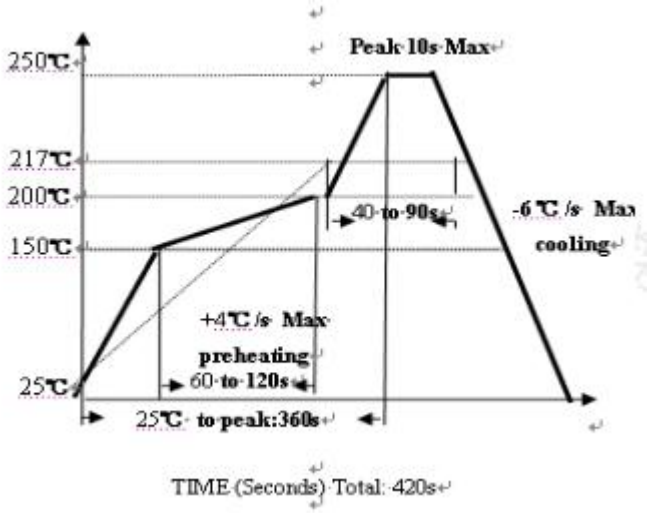
1	Nominal Frequency	32.768 KHz
2	Mode of Oscillation	AT FUND
3	Frequency Tolerance	±10PPM
4	Temperature Tolerance	±20PPM
5	Operating Temperature Range	-40℃～+85℃
6	Storage Temperature	-40℃～+85℃
7	Equivalency Resistance	≤70 KΩ
8	Load Capacitance	12.5 pF
9	Drive Level	100μW
10	Shunt Capacitance	≤7.0 pF
11	Insulation Resistance	≥500MΩ at DC 100V±15V
12	Aging	≤±5ppm/year
13	Hold Type (mm)	
14	Marking	

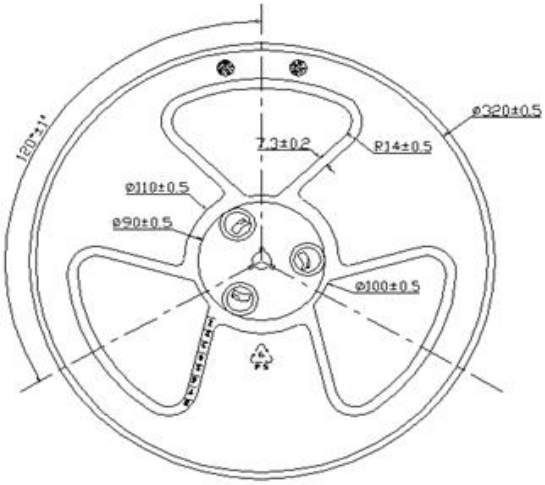
Reliability Testing

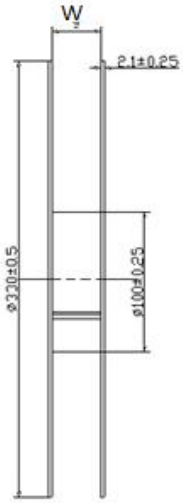
Project	Test conditions and requirements	Request
Vibration	Endurance condition by a frequency sweep shall be made. The entire frequency range from 10HZ to 50HZ and return to 10HZ, shall be transverseb in 1min. Amplitude(total excursion):1.5mm this motion shall be applied for a period of 2h each of 3 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	

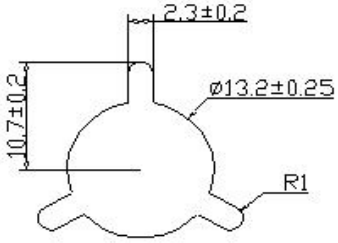
	Temperature	Duration
1	-40℃±3℃	30min
2	Standard atmospheric conditions	Within 30s
3	100℃±3℃	30min
4	Standard atmospheric conditions	Within 30s

Resistance to soldering heat









Available Reel Size (mm)	
Tape width	W±0.3 mm
24 mm	24.4