



Approved by:
Checked by:
Issued by:

SPECIFICATION

PRODUCT: QUARTZ CRYSTAL 26.000000MHz +/-10PPM 15PF SMD 2016

MODEL: 2016-26.000000-15-1020

Product code:

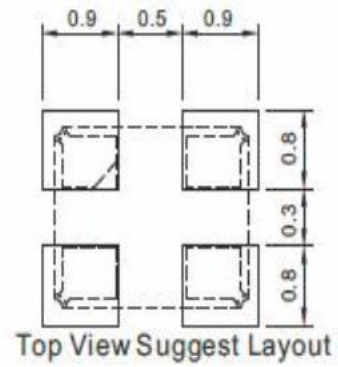
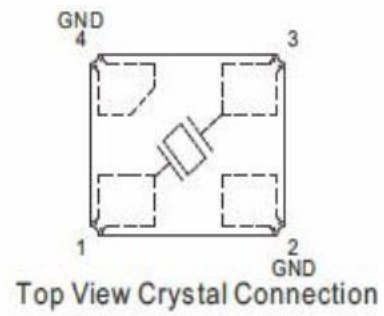
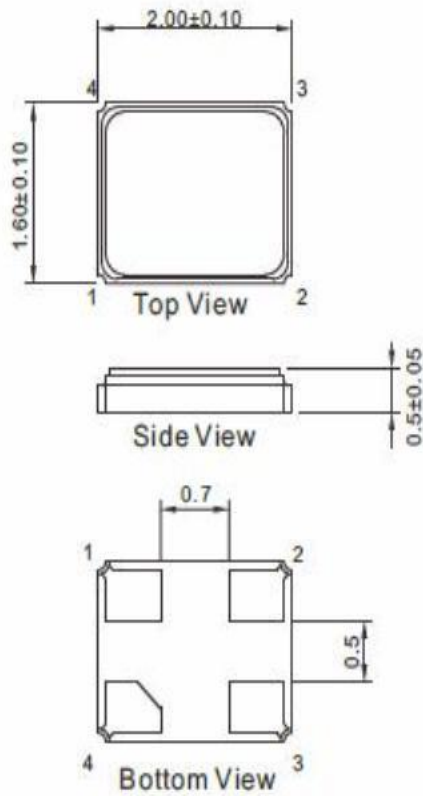
SHEN ZHEN HOPE MICROELECTRONICS CO.,LTD

1. Electrical characteristics

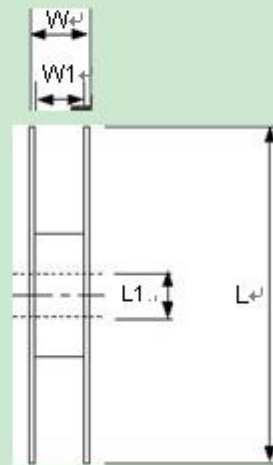
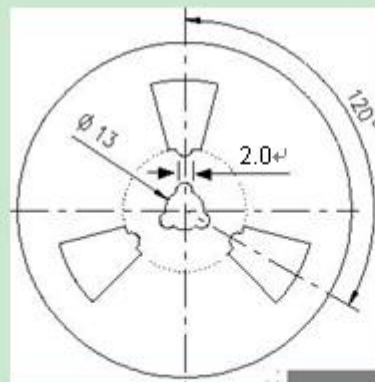
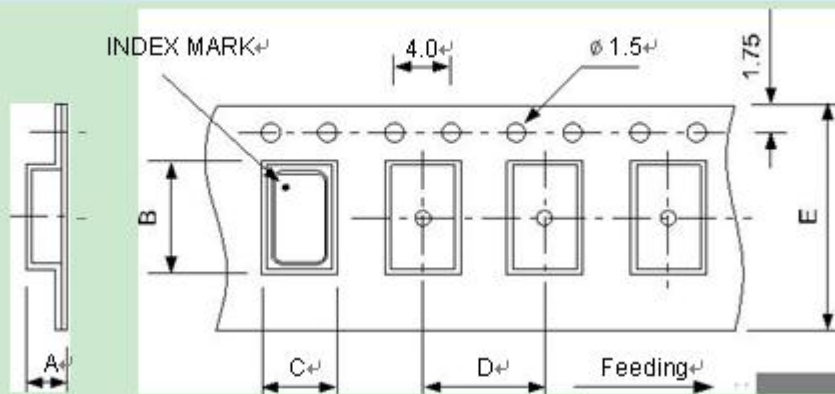
Type	2016Crystal Resonator
Nominal frequency:	26.000000MHz
Frequency tolerance at (25°C±3°C)	≤±10ppm
Mode of vibration	FUND
Load capacitance	15pF
Effective series resistance	50Ω
Shunt capacitance	≤5pF
Operating temperature range	-40°C~+85°C
Storage temperature range	-55°C~+125°C
Frequency stability vs. operating temperature	≤±20ppm
Drive level	100μW
Insulation resistance	500MΩ/100V±15V_{DC}
Aging	≤±3ppm/First year
Test machine	S&A 250B

Remark: Sample Data See Attachment

2. Dimension (mm)



3. Packing Specification



DIMENSIONS		A	B	C	D	E	L	L1	W	W1	pcs / Reel
	7050	2.15	7.9	5.4	8	16	180	13	21.5	17.5	1K
	6035	1.4	6.4	3.9	8	12	180	13	15.4	13	1K
	5032	1.46	5.5	3.6	8	12	180	13	15.4	13	1K
	3225	1.4	3.4	2.7	4	8	180	13	11.5	8	3K
	2520	1.15	2.8	2.25	4	8	180	13	10.5	8	3K
	2016	0.95	2.25	2.25	4	8	180	13	10.5	9	3K
	1612	0.8	2.0	1.85	4	8	180	13	10.5	9	3K

4. Reliability Specification

	Item	Condition	Standard
1	Drop characteristics	Free drop from 50cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change: $\leq 5\text{ppm}$ Rr as specification
2	Shake characteristics	Shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm, direction x/y/z, all 30 minutes, test after 1 hours.	Frequency change: $\leq 5\text{ppm}$ Rr as specification
3	Airproof characteristics	Put crystal into the pressure cabin with alcohol, keep pressure 0.4~0.5mpa 10 minutes, then take out and blow for 5 minutes	$IR \geq 500M\Omega$
4	Weld characteristics	$335 \pm 5^\circ\text{C}$, 3 seconds	90% exhibit tin ok
5	Humidity characteristics	$+40 \pm 2^\circ\text{C}$ & 90%~95% R.H. 250 hours	Frequency change: $\leq 5\text{ppm}$ Rr as specification
6	Low temperature characteristics	$-30 \pm 2^\circ\text{C}$, 250 hours, put in room temperature, test after 1 hours.	Frequency change: $\leq 5\text{ppm}$ Rr as specification
7	High temperature characteristics	$+85 \pm 2^\circ\text{C}$, 250 hours, put in room temperature, test after 1 hours.	Frequency change: $\leq 5\text{ppm}$ Rr as specification
8	Temperature cycling	$-30 \pm 3^\circ\text{C}/30 \pm 3 \text{ min} \sim +85 \pm 2^\circ\text{C}/30 \pm 3 \text{ min}$, 5 cycles	Frequency change: $\leq 5\text{ppm}$ Rr as specification
9	Refluence examination	1-Max 180 Sec 2-Max 10 Sec 3-Max 80 Sec 4-Max 90 Sec	Frequency change: $\leq 5\text{ppm}$ Rr as specification