

Crystal OSCILLATOR

2.5 X2. 0MM Surface Mount Package



Approved by:

Checked by:

Issued by:

SPECIFICATION

P/N: 2N32768K0C04MBL

深圳市晶科鑫实业有限公司
SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.

Tel: 86-755-88352809
E-mail: sjksale@126.com

Fax: 86-755-88353718
URL: [Http://www.q-crystal.com](http://www.q-crystal.com)

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FEATURE

- Compact and thin ceramic package with metalized surface mounting and automatically loaded
- Reflow solder is possible
- Lower noise and current with reduced power consumption
- Built-in C-MOS IC with tri-state function
- 1.8~ 3.3V supply model available

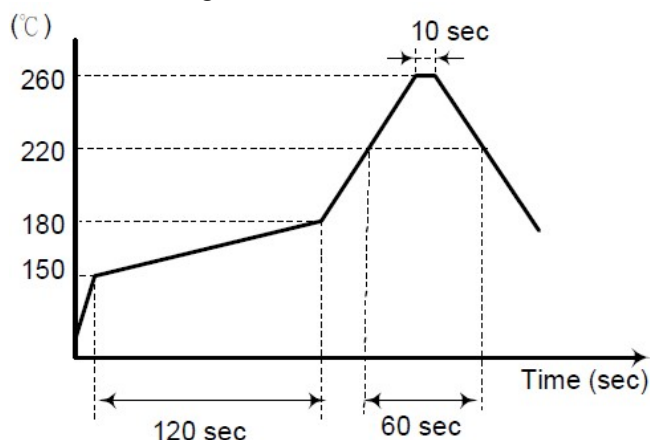
ELECTRICAL SPECIFICATIONS

Parameters	Condition\Model	
Fan Out Type		HCMOS
Supply Voltage		1.8V
Frequency		32.768KHz
Operating Temperature		-40℃ ~ +85℃
Input Current	Frequency Range	70uA max
Frequency Stability	All Conditions	±50ppm
Symmetry	AT 1/2 Vdd	45/55%
Output Voltage	Vol(max)	10% Vdd
	VoH(min)	90% Vdd
Rise/Fall Time	AT 0.1Vdd~0.9Vdd	20ns Max
Driving Ability	CMOS load max	15pF
Start-up Time	Load RANGE	10ms max
E/D Function	#1 OPEN	PIN #3 ACTIVE
	#1 >=70%Vdd	PIN #3 ACTIVE
	#1 <=30%Vdd	PIN #3 HighZ
PAD Connection		PIN#1 E/D PIN#3 OUT
		PIN#2 GND PIN#4 Vdd

Reflow Soldering Profile

Total Time: 200 sec. Max.

Solder Melting Point :220 °C



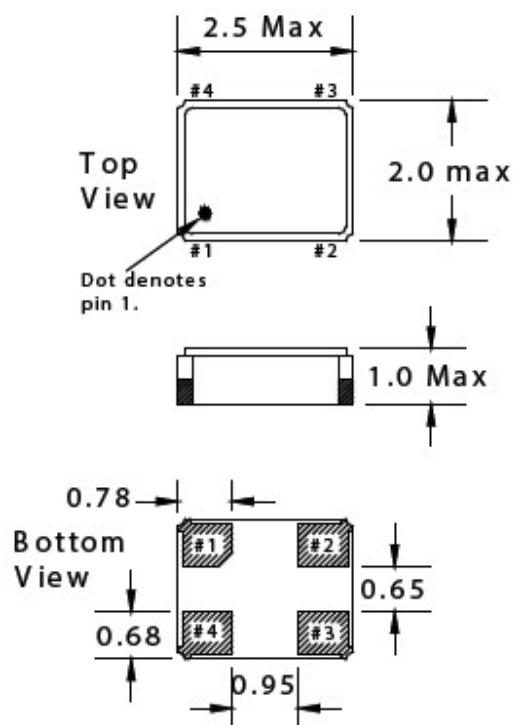
The design, manufacturing process, and specifications of this device are subject to change without notice.

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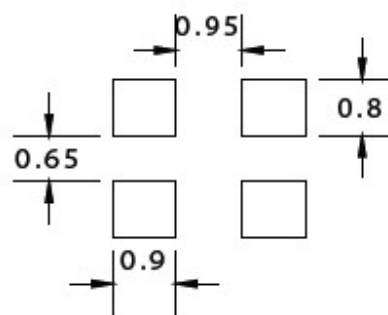
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Dimension



Recommended Solder Pad Layout

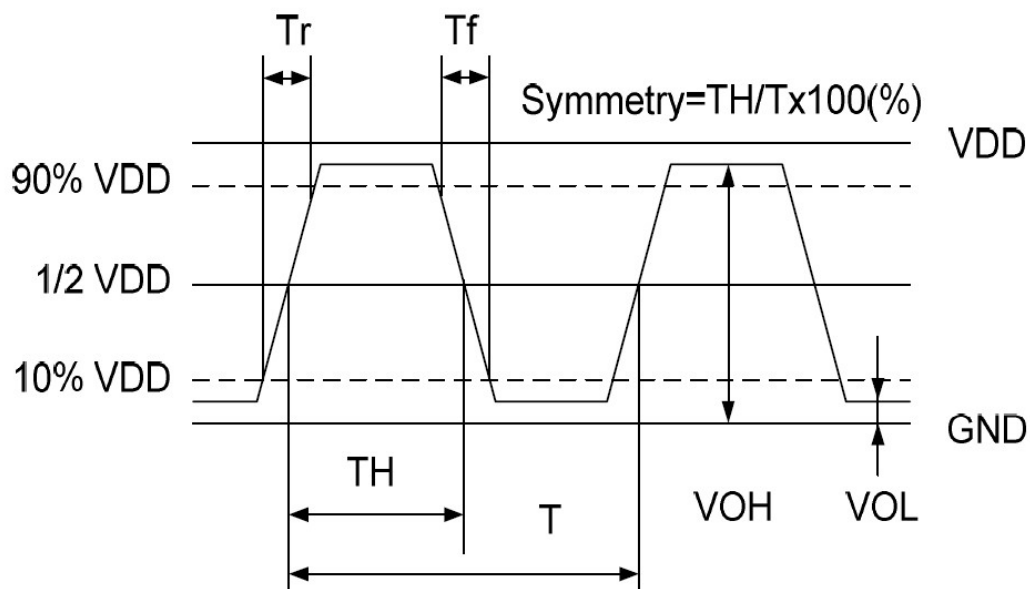


All dimensions are in millimeters.

Pin Connections

#1 E/D #3 Output
#2 GND #4 VDD

Waveform Conditions



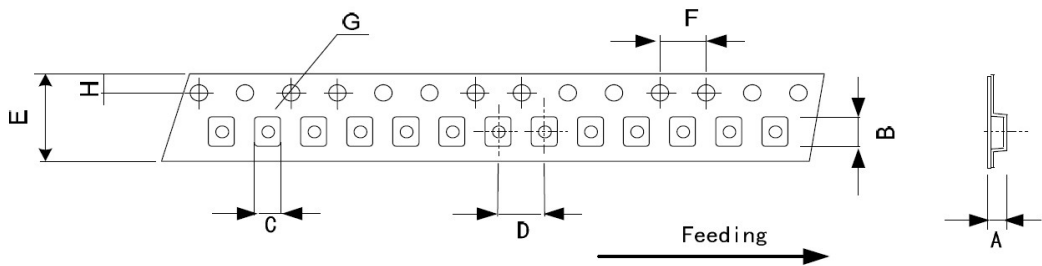
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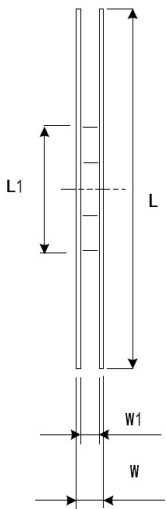
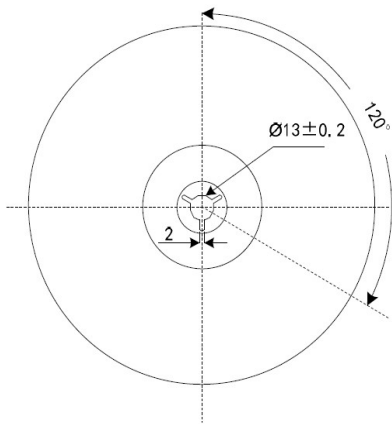
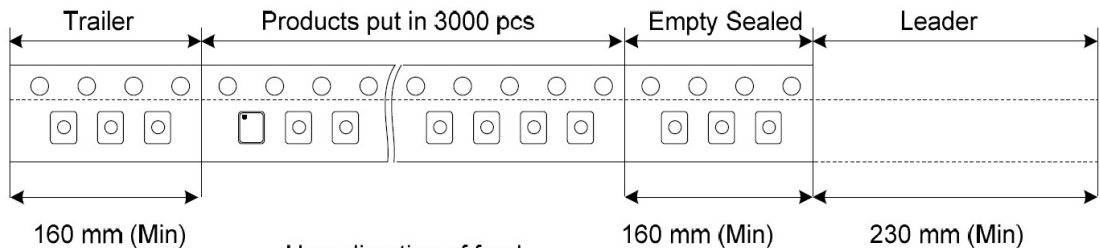


Tape Dimension



DIMENSIONS	A	B	C	D	E	F	G	H	(UNIT:mm)
	1.15	2.70	2.25	4.00	8.00	4.00	1.55	1.75	
	±0.05	±0.05	±0.05	±0.10	±0.20	±0.10	±0.05	±0.10	

REMARK :



DIMENSIONS	L	L1	W	W1	Standard Reel Quantity is 3,000 pcs per reel (UNIT:mm)
	180	60	11.4	9	
	0/-3	+1/0	±0.1	±0.3	