

Crystal OSCILLATOR

2.0X1.6 MM Surface Mount Package



Approved by:

Checked by:

Issued by:

SPECIFICATION

P/N: 1N2400000C01GJM

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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

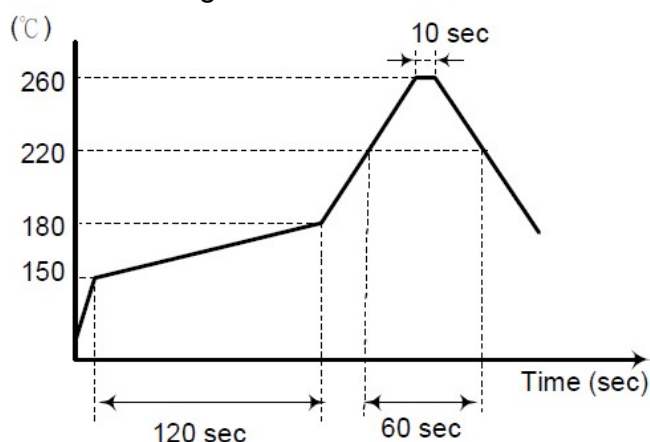
ELECTRICAL SPECIFICATIONS

Parameters	Condition\Model	
Fan Out Type		HCMOS
Supply Voltage		3.3V $\pm$ 10%
Frequency		24.000MHz
Operating Temperature		-40°C ~ +125°C
Input Current	Frequency Range	5mA max
Frequency Stability	All Conditions	$\pm$ 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	10ns Max
Driving Ability	CMOS load max	15pF
Start-up Time	Load RANGE	10ms max
E/D Function	#1 OPEN	PIN #3 ACTIVE
	#1 $\geq$ 70% Vdd	PIN #3 ACTIVE
	#1 $\leq$ 30% Vdd	PIN #3 HighZ
PAD Connection		PIN#1 E/D
		PIN#2 GND
		PIN#3 OUT
		PIN#4 Vdd

Reflow Soldering Profile

Total Time: 200 sec. Max.

Solder Melting Point :220 °C



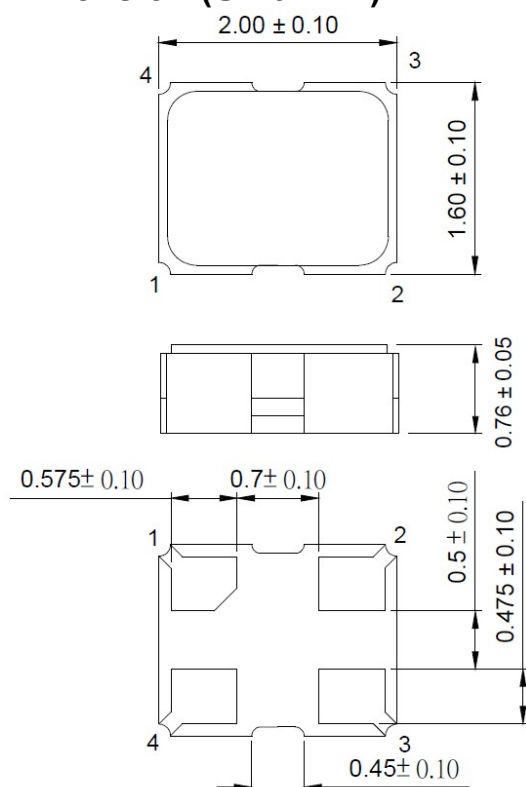
The design, manufacturing process, and specifications of this device are subject to change without notice.

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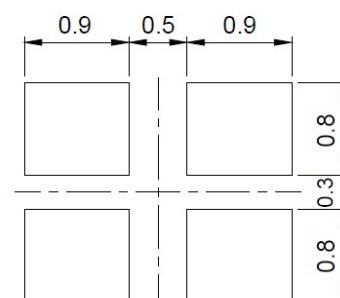


Dimension (Unit: mm)

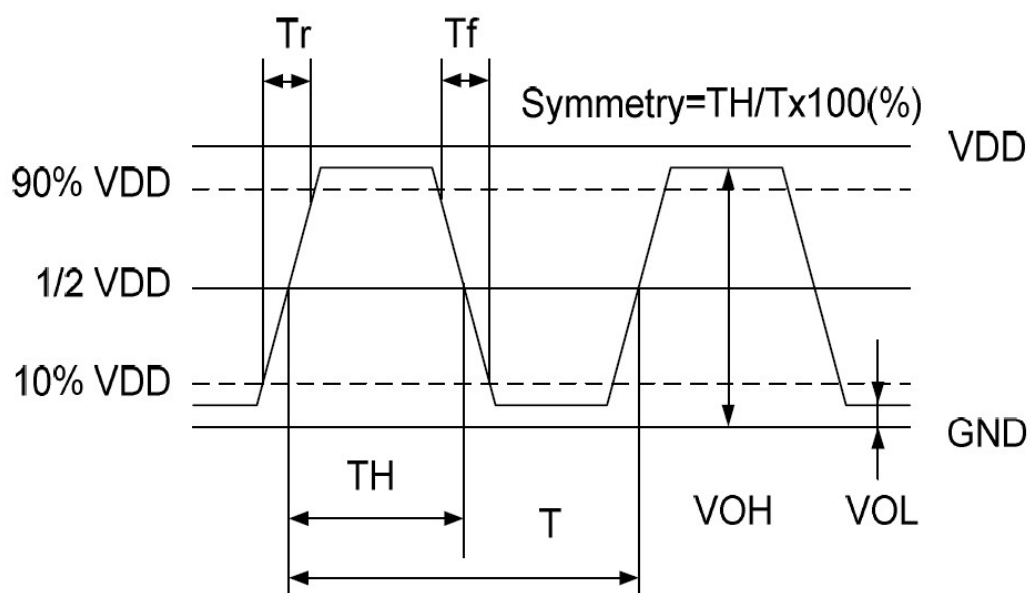


PAD FUNCTION:
1: ENABLE CONTROL
2: GND
3: OUT
4: VDD

Suggested Layout



Waveform Conditions



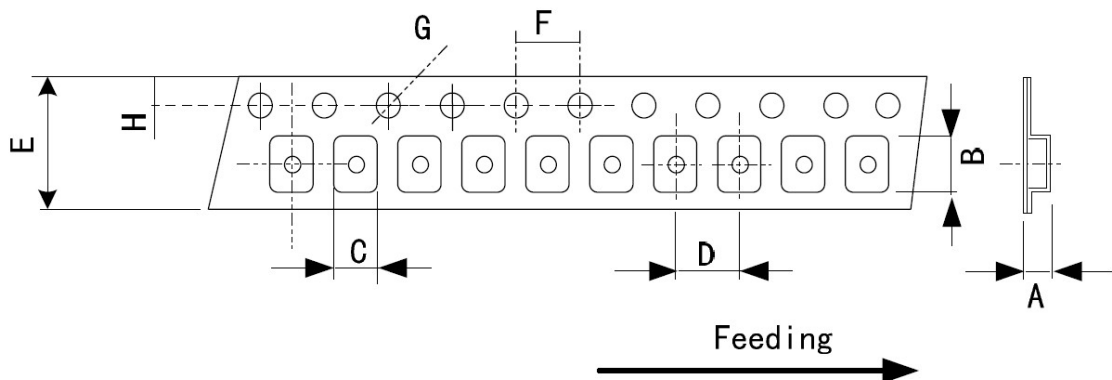
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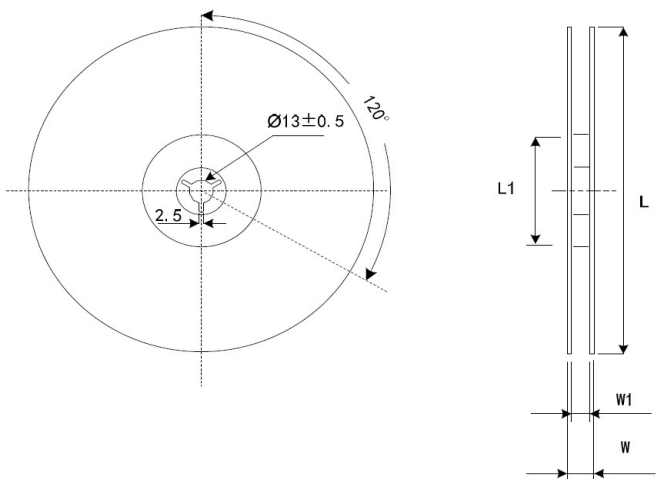
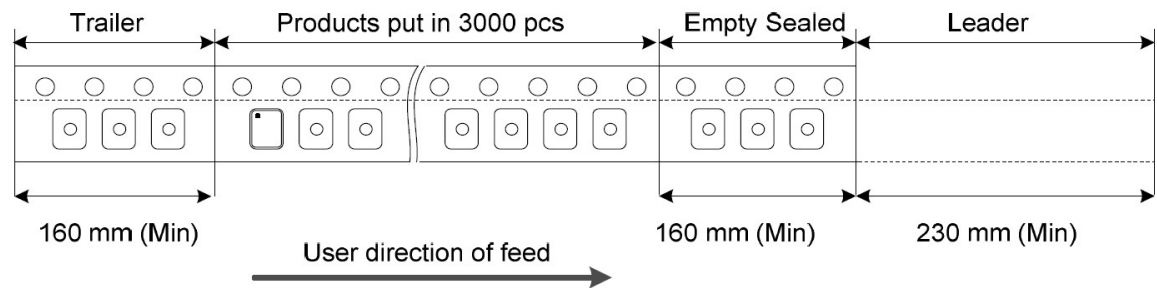


Tape Dimension



DIMENSIONS	A	B	C	D	E	F	G	H	
	0.90	2.30	1.90	4.00	8.00	4.00	1.55	1.75	(UNIT:mm)
	±0.10	±0.10	±0.10	±0.10	±0.20	±0.10	±0.05	±0.10	

REMARK :



DIMENSIONS	L	L1	W	W1	
	178	60.2	11.5	8	Standard Reel Quantity is 3,000 pcs per reel
	±1.00	±0.50	±0.2	+1/-0	(UNIT:mm)