

MEMS OSCILLATOR

2.5x2.0MM Surface Mount Package



Approved by:
Checked by:
Issued by:

SPECIFICATION

P/N: S20800000C0SMBL

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FEATURE

- Broad frequency ranges from 1.000MHz to 200MHz
- Compact and thin ceramic package with metalized surface mounting and automatically loaded
- Reflow solder is possible
- Lower noise and current with reduced power consumption

ELECTRICAL SPECIFICATIONS

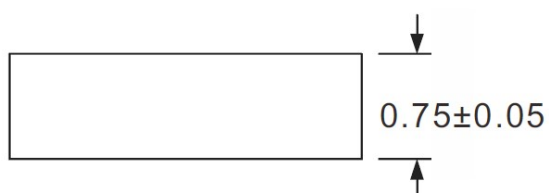
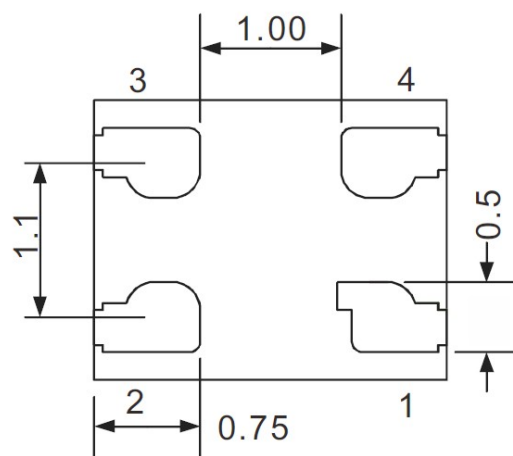
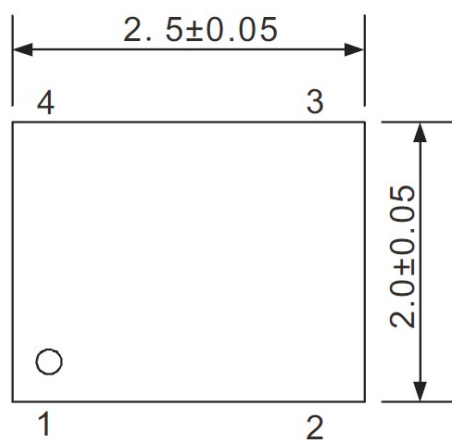
Parameters	Condition\Model	
Fan Out Type		LVC MOS
Supply Voltage		1.8~3.3V
Frequency		8.000MHz
Operating Temperature		-40℃ ~ +85℃
Input Current	Frequency Range	3.8mA typical/4.5mA Max
Frequency Stability	All Conditions	50ppm
Duty Cycle	AT 1/2 Vdd	45/55%
Output Voltage	Vol(max)	10% Vdd
	VoH(min)	90% Vdd
Rise/Fall Time	AT 0.1Vdd~0.9Vdd	2.5ns Max
Driving Ability	CMOS load max	15pF
Start-up Time	Load RANGE	3ms max
Aging	1 st Year	±1.5ppm
	10 years	±3.5ppm
E/D Function	#1 OPEN	PIN #3 ACTIVE
	#1 >=70%Vdd	PIN #3 ACTIVE
	#1 <=30%Vdd	PIN #3 HighZ
RMS Phase Jitter (random)	f = 75 MHz, Integration bandwidth = 900 kHz to 7.5 MHz	0.9pS Max
	f = 75 MHz, Integration bandwidth = 12 kHz to 20 MHz	2.0 pS Max
PAD Connection		PIN#1 Standby
		PIN#3 OUT
		PIN#2 GND
		PIN#4 Vcc

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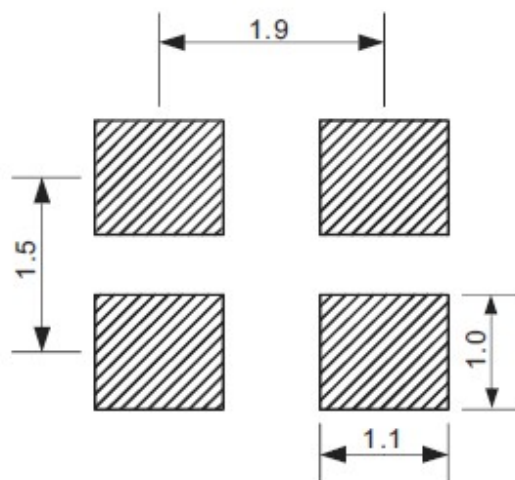
Dimension (mm)



No.	Pin Terminal
1	Standby
2	GND
3	Output
4	VDD

Center Pad: NC/GND

Recommended Land Pattern (mm)



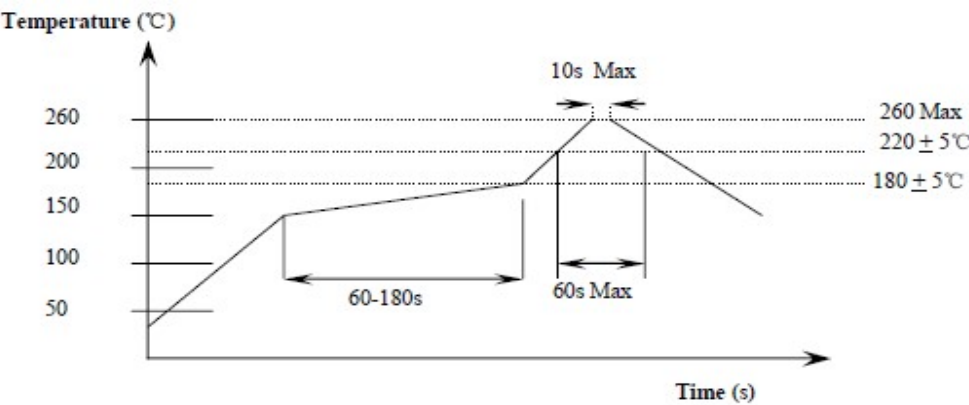
The design, manufacturing process, and specifications of this device are subject to change without notice.

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Reflow Soldering Profile



Tape Dimension

• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
2520	Ø1.5	4.0	4.0	3.5	8.0	1.15	3,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
2520	2.0	Ø13	Ø21	Ø60	Ø180	9.0	2.0

