

SJK8008 MEMS MHz Oscillator

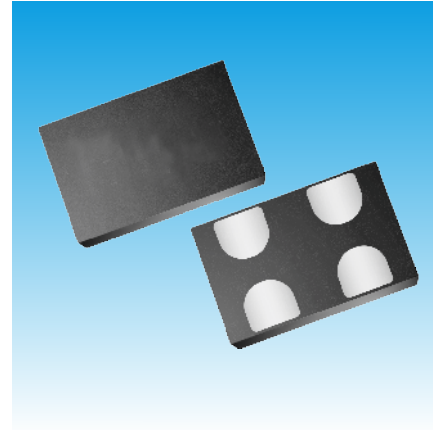


Low Power Programmable Oscillator

Frequency: 1~110MHz

Features

- Frequency range from 1MHz to 110MHz
- Excellent frequency stability as low as $\pm 20\text{ppm}$
- Low power consumption of 3.5mA at 1.8V
- Standby mode for longer battery life
- Fast startup time of 5ms
- LVCMOS/HCMOS output type
- Size with 2.0×1.6, 2.5×2.0, 3.2×2.5, 5.0×3.2, 7.0×5.0 mm×mm
- Automatic mounting and reflow soldering
- Applications: DSC, Ethernet, USB, SATA, IP Cam, Tablets, E-books, etc
- RoHS Compliant /Pb Free

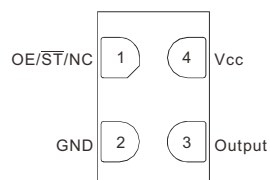


Standard Specification

Item /Type		SJK8008
Output Type		LVCMOS/HCMOS
Frequency Range		1~110MHz
Supply Voltage		1.8V~3.3V
Frequency Stability		$\pm 20\text{ppm} \sim \pm 50\text{ppm}$, or specify
Current Consumption		4.5mA Max.
Standby Current		4.3mA Max.
OE Disable Current		4.2mA Max.
Operating Temperature		-40~+105°C
Duty Cycle		45~55%
Rise/Fall Time		2.5ns Max.
Voltage Vol (Max.)/Voh (Min.)		10% Vcc/90% Vcc
Voltage Vil (Max.)/Vih (Min.)		30% Vcc/70% Vcc
Input Pull-up Impedance		150K Ω Max. (Pin1 Logic High)
		2M Ω Min. (Pin1 Logic Low)
Start-up Time		5ms Max.
Enable/Disable Time		130ns Max.
Resume Time		5ms Max.
RMS Period Jitter		3pS Max
Peak to Peak Period Jitter		30pS Max.
RMS Phase Jitter (12KHz~20MHz)		2pS Max.
Storage Temperature		-65~+150°C
Packing Unit	2016, 2520, 3225 size	3000pcs.Reel
	5032, 7050 size	1000pcs.Reel

Pin Functions

Top View



Pin Connections

Pin No.	Connection
1	OE /ST /NC
2	GND
3	Output
4	Vcc

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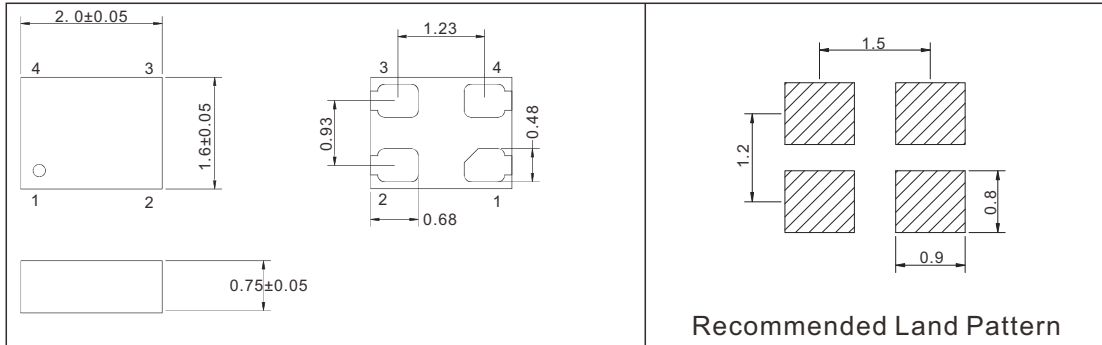


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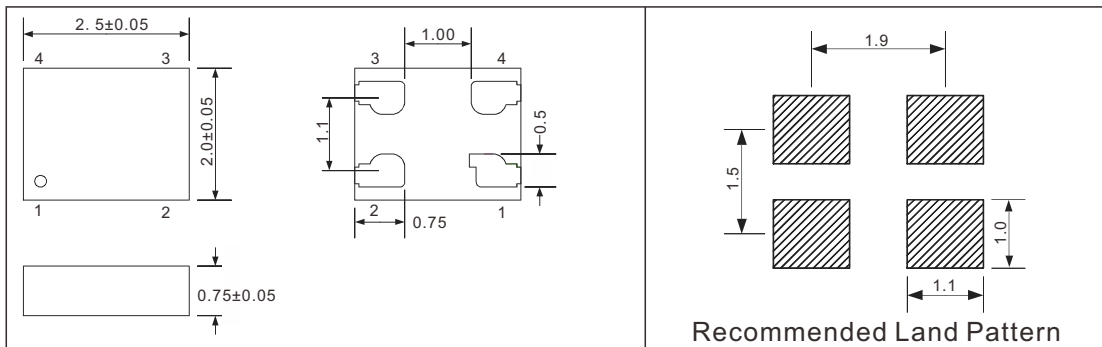
Frequency: 1~110MHz

Dimensions [mm]

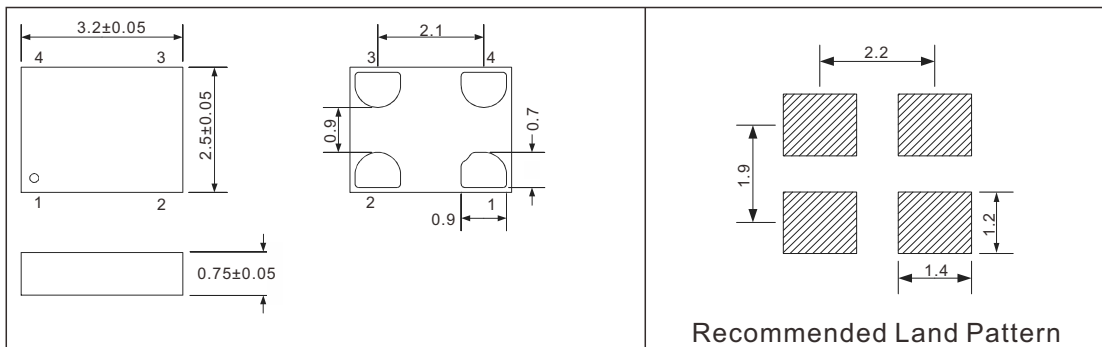
Size: 2.0×1.6×0.75 mm



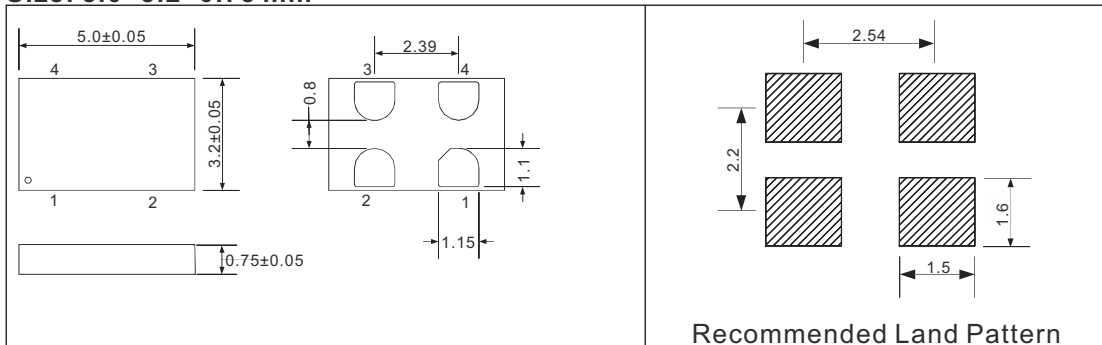
Size: 2.5×2.0×0.75 mm



Size: 3.2×2.5×0.75 mm



Size: 5.0×3.2×0.75 mm



Size: 7.0×5.0×0.9 mm

