

SJK8008 MEMS MHz Oscillator

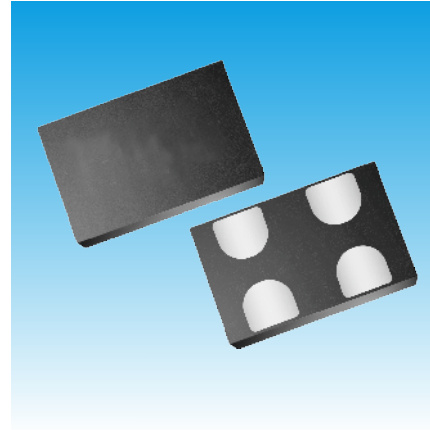


Low Power Programmable Oscillator

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

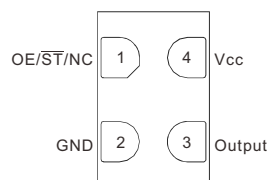


Standard Specification

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~+85°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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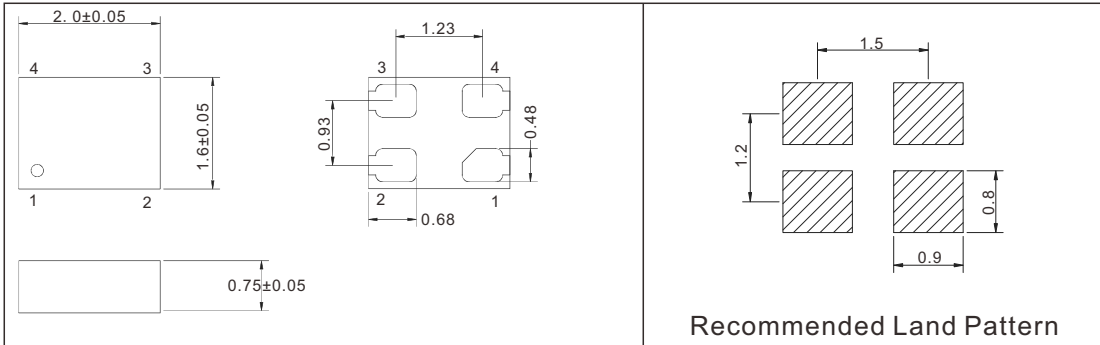


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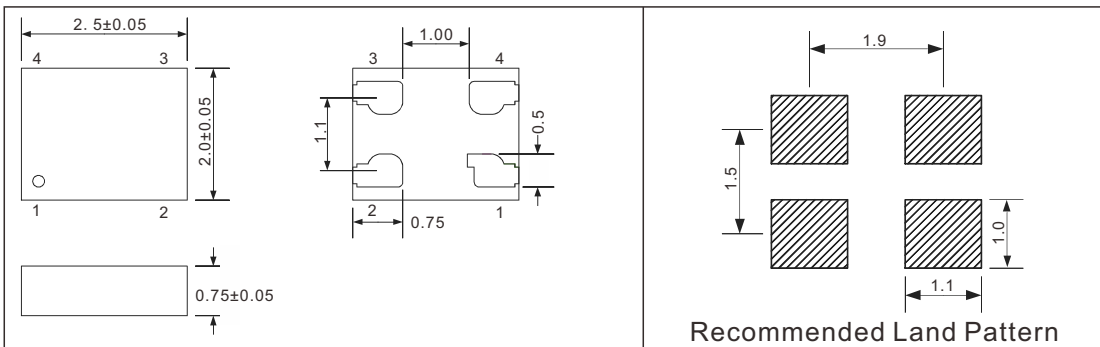
Frequency: 1~110MHz

Dimensions [mm]

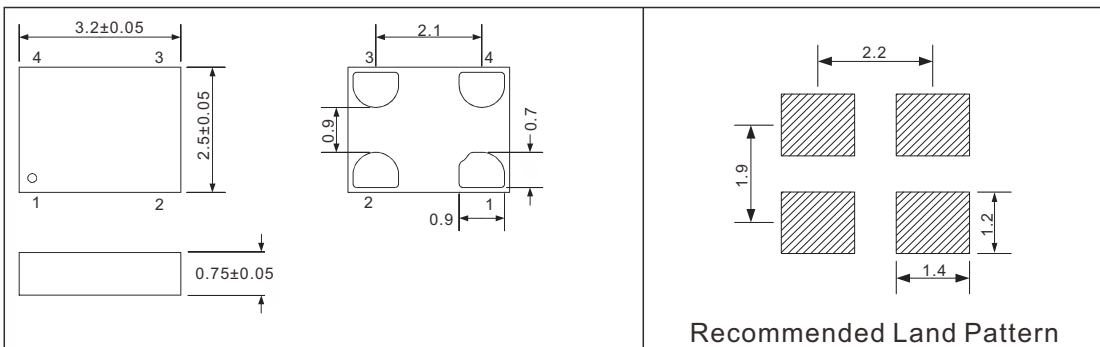
Size: 2.0×1.6×0.75 mm



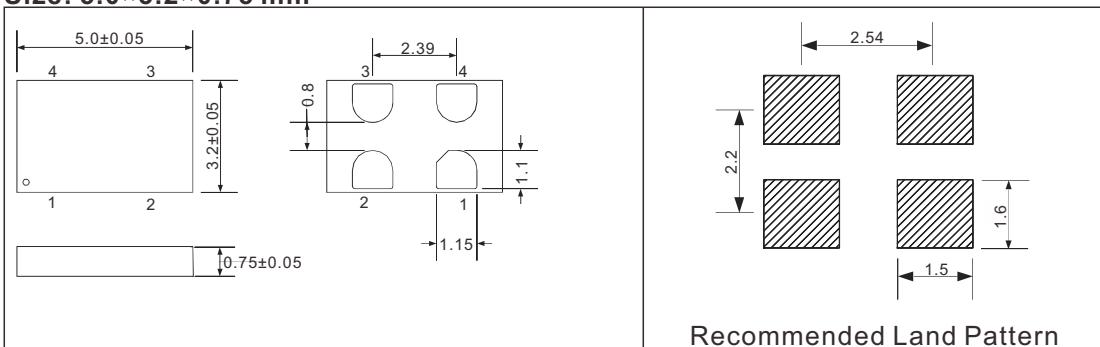
Size: 2.5×2.0×0.75 mm



Size: 3.2×2.5×0.75 mm



Size: 5.0×3.2×0.75 mm



Size: 7.0×5.0×0.9 mm

