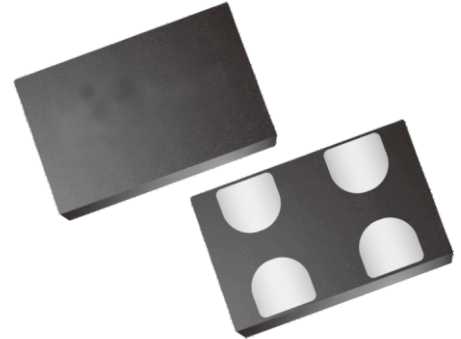


Ultra Performance MEMS MHz Oscillators

SMD Type	Output	Best Stability	Phase Jitter	Supply Voltage	Frequency Range
SJK8209	LVC MOS	10 ppm	0.5 pS	1.8V ~ 3.3V	80 MHz~220 MHz
[2.5×2.0, 3.2×2.5, 5.0×3.2, 7.0×5.0 mm]					

Features

- Standard 4-pin package: 2.5×2.0 (2520), 3.2×2.5 (3225), 5.0×3.2 (5032), 7.0×5.0 (7050), mm×mm
- LVC MOS/LVTTL output, any frequency between 80.000001 and 220MHz accuracy to 6 decimal places
- Frequency stability from as low as ±10ppm
- Ultra low phase jitter: 0.5ps (12KHz to 20MHz)
- RoHS and REACH Compliant, Pb-Free
- Low supply voltage of 1.8V; 2.5V to 3.3V
- Applications: Ethernet, WiFi, SATA, Computing, Storage, Telecom, Industrial control, Video, Audio, SAS, etc.



Standard Specifications

Item / Type	SJK8209
Dimensions	2.5×2.0×0.75, 3.2×2.5×0.75, 5.0×3.2×0.75, 7.0×5.0×0.9 mm
Output	LVC MOS /LVTTL
Frequency stability	±10ppm, ±20ppm, ±25ppm, ±50ppm
Output frequency range	80.000001 MHz~220 MHz
Supply voltage	1.8V, 2.5V, 2.8V, 3.3V
Current consumption	36mA max.
OE disable current	31mA max.
standby current	70µA max.
Duty cycle	45~55%
Rise /Fall time	2ns max.
Output voltage Voh /Vol	90% Vdd min. /10% Vdd max.
Input voltage Vih /Vil	70% Vdd min. /30% Vdd max.
Input pull-up impedance	2 MΩ min.
Enable/Diable time	115ns max.
Start-up time	10ms max.
Operation temperature	-20~+70°C, -40~+85°C
Storage temperature	-65~+150°C
RMS Phase jitter (12 KHz~20 MHz)	0.5 pS Typ.

SMD Type
SJK8209
[2.5×2.0, 3.2×2.5, 5.0×3.2, 7.0×5.0 mm]

Output
LVC MOS

Best Stability
10 ppm

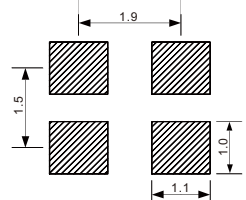
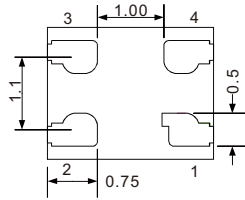
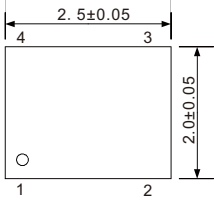
Phase Jitter
0.5 pS

Supply Voltage
1.8V ~ 3.3V

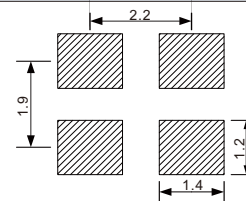
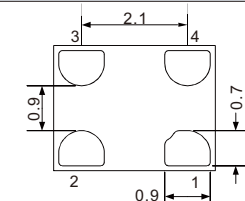
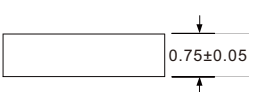
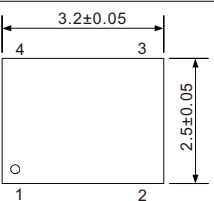
Frequency Range
1 MHz~80 MHz

Outline Dimensions (Unit: mm)

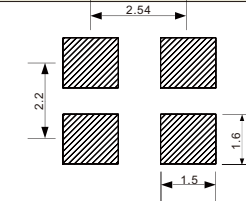
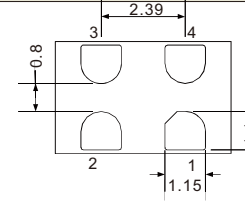
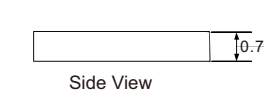
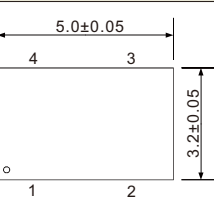
2.5×2.0×0.75 mm



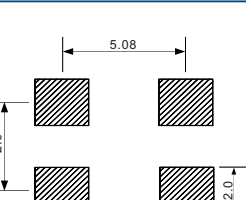
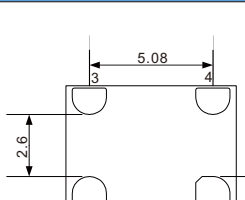
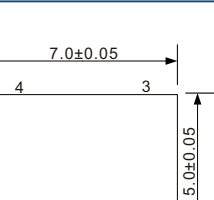
3.2×2.5×0.75 mm



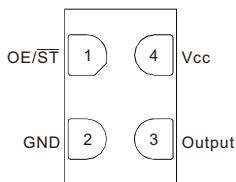
5.0×3.2×0.75 mm



7.0×5.0×0.90 mm



Pin Map



Pin	Connection	Function
1	OE/ \overline{ST}	Output Enable, Standby
2	GND	Electrical ground
3	OUT	Oscillator output
4	Vdd	Power supply voltage