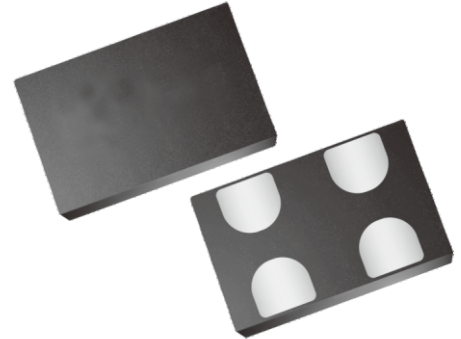


Spread Spectrum MEMS MHz Oscillators

SMD Type	Output	Best Stability	EMI Reduction	Supply Voltage	Frequency Range
SJK9005	LVCMOS	20 ppm	30dB	1.8V ~ 3.3V	1 MHz~141 MHz
[2.0×1.6, 2.5×2.0, 3.2×2.5 mm]					

Features

- Standard 4-pin packages: 2.0×1.6 (2016), 2.5×2.0 (2520), 3.2×2.5 (3225), mm×mm
- LVCMOS output, any frequency between 1 and 141MHz accuracy to 6 decimal places
- Wide spread % option, up to 30dB reduction
- Excellent total frequency stability as low as ±20ppm
- 1.8V, 2.5V to 3.3V, 1.8V to 3.3V supply voltage
- RoHS and REACH Compliant, Pb-Free
- Low power consumption 4.0mA typical at 1.8V
- Applications: Industrial motor, Surveillance camera, IP camera, Flat panels, PCI-express, Audio and Video, Printers, etc.



Standard Specifications

Item / Type	SJK9005
Dimensions	2.0×1.6×0.75, 2.5×2.0×0.75, 3.2×2.5×0.75 mm
Output	LVCMOS
Frequency stability	±20ppm, ±25ppm, ±50ppm
Output frequency range	1 MHz~141 MHz
Supply voltage	1.8V, 2.5V, 2.8V, 3.0V, 3.3V, 2.25V~3.63V
Current consumption	6.5mA max.
OE disable current	6.5mA max.
Standby current	4.3µA max.
Duty cycle	45~55%
Rise /Fall time	2.5ns 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.
Start-up time	180ns max.
Spread Enable /Disable time	4µs /50µs max.
Operation temperature	-20~+70°C, -40~+85°C
Storage temperature	-65~+150°C
Cycle-to-Cycle jitter	22 pSec max.

Spread Spectrum MEMS MHz Oscillators

SMD Type
SJK9005
[2.0×1.6, 2.5×2.0, 3.2×2.5 mm]

Output
LVC MOS

Best Stability
20 ppm

EMI Reduction
30dB

Supply Voltage
1.8V ~ 3.3V

Frequency Range
1 MHz~141 MHz

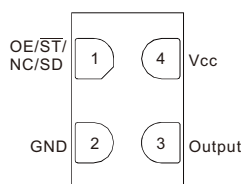
Spread Spectrum % (Spread profile: Triangular / Hershey-kiss)

Ordering Code	Center Spread %	Down Spread %	Ordering Code	Center Spread %	Down Spread %
A	±0.125	-0.25	I	±1.155	-2.36
B	±0.250	-0.50	J	±1.280	-2.62
C	±0.390	-0.78	K	±1.420	-2.91
D	±0.515	-1.04	L	±1.545	-3.18
E	±0.640	-1.29	M	±1.670	-3.45
F	±0.765	-1.55	N	±1.795	-3.71
G	±0.905	-1.84	O	±1.935	-4.01
H	±1.030	-2.10	P	±2.060	-4.28

Outline Dimensions (Unit: mm)

2.0×1.6×0.75 mm			
<p>Top View</p>	<p>Side View</p>	<p>Bottom View</p>	<p>Footprint (Recommender)</p>
2.5×2.0×0.75 mm			
<p>Top View</p>	<p>Side View</p>	<p>Bottom View</p>	<p>Footprint (Recommender)</p>
3.2×2.5×0.75 mm			
<p>Top View</p>	<p>Side View</p>	<p>Bottom View</p>	<p>Footprint (Recommender)</p>

Pin Map



Pin	Connection	Function
1	OE/ST/NC/SD	Output Enable, Standby, No Connect, Spread Disable
2	GND	Electrical ground
3	OUT	Oscillator output
4	Vdd	Power supply voltage