

### Features

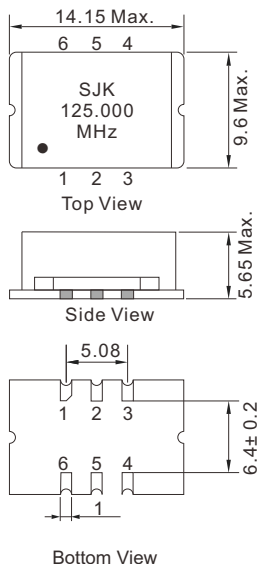
- Package size with 14×9.6×5.4mm
- Frequency range from 1MHz to 170MHz
- Low voltage operation: 1.8~5.0V
- Either fundamental and 3rd overtone solution
- 3-state function
- Automatic mounting and reflow soldering
- Applications: *Fibre Channel, Ethernet, SDH, Serial ATA, SCSI, SONET, etc.*
- RoHS Compliant & Pb Free



### Standard Specifications

Type	9N SMD Crystal Oscillator
Output Type	CMOS
Output Load	15pF, or specify
Supply Voltage	1.8~5.0V
Frequency Range	1~170 MHz
Supply Current	50mA Max.
Frequency Stability	±20ppm, ±25ppm, or specify
Operating Temperature	-40~+85°C, or specify
Storage Temperature	-55~+125°C
Voltage Vol (Max.) / Voh (Min.)	0.1VDD / 0.9 VDD
Rise (Tr) / Fall (Tf) Time	10ns Max.
Period Jitter	40ps Max.
Duty Cycle	40~60%
Start-up Time	10ms Max.
Phase Jitter (12KHz~20MHz)	1ps Max.
Aging (at 25°C)	±3ppm / Year Max.
Packing Units	1000pcs. /Reel

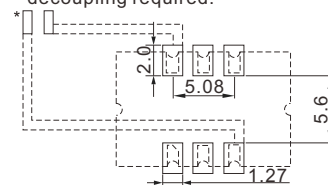
### Dimensions [mm]



### Pin Connections

Pin No.	Connection
1	OE or NC
2	OE or NC
3	GND
4	Output
5	NC
6	Vdd

\* External high frequency power supply decoupling required.



Top View Suggested Layout