

SMD LVDS Crystal Oscillator



Size: 5.0×3.2×1.2 mm

5D Series SMD LVDS Crystal Oscillators

Features

- Differential output (LVDS)
- Frequency range from 10MHz to 320MHz
- 2.5V /3.3V operation voltage
- Excellent low phase noise and jitter
- 3-state function available
- Automatic mounting and reflow soldering
- Applications: Ethernet, Server, Telcom, Storage Area Network, SONET, etc
- RoHS Compliant /Pb Free

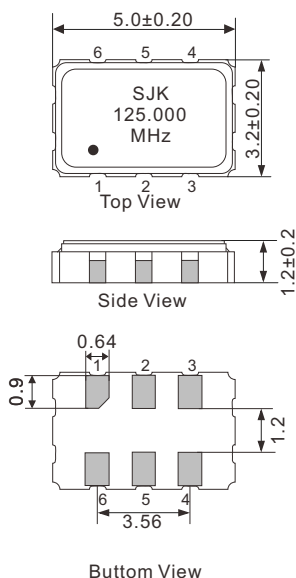


Standard Specification

Item /Type	5D (SMD 5032 LVDS Crystal Oscillators)
Output Type	LVDS
Output Load	100Ω
Supply Voltage	2.5V /3.3V
Frequency Range	10~320 MHz
Supply Current	50mA Max.
Overall Frequency Stability*	±25ppm, ±50ppm, or specify
Operating Temperature	-40~+85°C, or specify
Storage Temperature	-55~+125°C
Voltage Vol (Max.) /Voh (Min.)	0.9V /1.6V
Rise (Tr) /Fall (Tf) Time	1ns Max.
Start-up Time	3ms Max.
Duty Cycle	45~55%
Phase Noise (156.25MHz) at 1KHz	-105dBc/Hz
Phase Jitter (12KHz~20MHz)	1ps Max.
Aging (at 25°C)	±3ppm /Year Max.
Packing Units	1000pcs. /Reel

* Inclusive of frequency tolerance at 25°C, variation over temperature, supply voltage variation, aging and vibration.

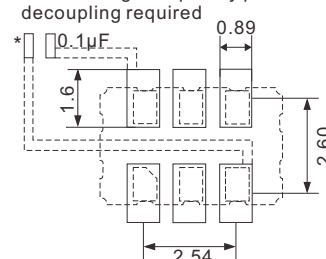
Dimensions [mm]



Pin Connections

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

* External high frequency power supply decoupling required



Top View Suggested Layout