

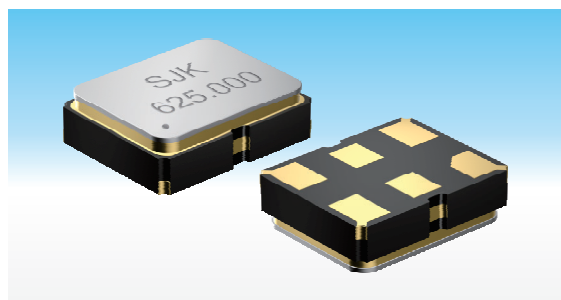
Differential Crystal Oscillator

1D Series SMD2016 LVDS Crystal Oscillator

13.5~625MHz

O: LVDS

Size: 2.0×1.6×0.7mm



Actual size

Features

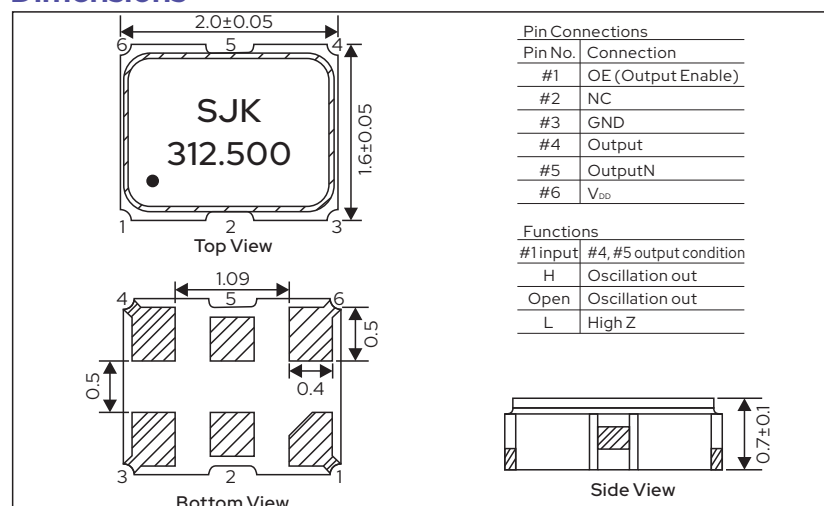
- SMD2016 LVDS output high speed type crystal oscillator
- 3-state function
- Crystals based on high fundamental frequency technology
- Operating voltage: 1.8V / 2.5V / 3.3V
- High frequency range: 13.5MHz~625MHz
- Ultra low phase jitter: 35fs Typ. (RMS jitter)
- Application for Servers, Optical transmission device, Data center, Ethernet 100G /400G /800G/1.6T, Storage, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item	Type	1D Series SMD 2016 LVDS Crystal Oscillator
Output Type		LVDS
Load condition		100Ω
Frequency Range		13.5MHz~625MHz
Supply Voltage		1.8V / 2.5V / 3.3V
Frequency Stability (All Condition)		±20ppm, ±25ppm, ±30ppm, ±50ppm, ±100ppm, or specify
Current Consumption		40mA max.
Stand-by Current		60μA max.
Symmetry		45~55%
0 Level Output Voltage (V _{OL})		0.9 V _{DD} min.
1 Level Output Voltage (V _{OH})		1.6 V _{DD} max.
Rise Time / Fall Time		0.4ns max.
OE Pin 0 Level Input Voltage (V _{IL})		0.2V _{DD} max.
OE Pin 1 Level Input Voltage (V _{IH})		0.8V _{DD} min.
Output Voltage Swing		450mV max
Start-up Time		10ms max.
Operating Temperature Range		-20~+70°C, -40~+85°C, or specify
Storage Temperature Range		-55~+125°C
Phase Jitter (12KHz~20MHz)		35fs Typ.

Dimensions



Recommended Land Pattern [mm]

