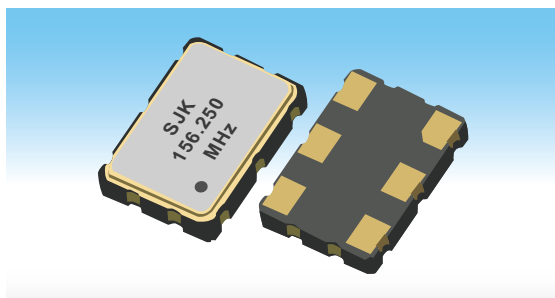


SMD Differential Crystal Oscillator

7H Series SMD 7050 HCSL Crystal Oscillator 13.5~700MHz O: HCSL Size: 7.0×5.0×1.5mm



Actual size

Features

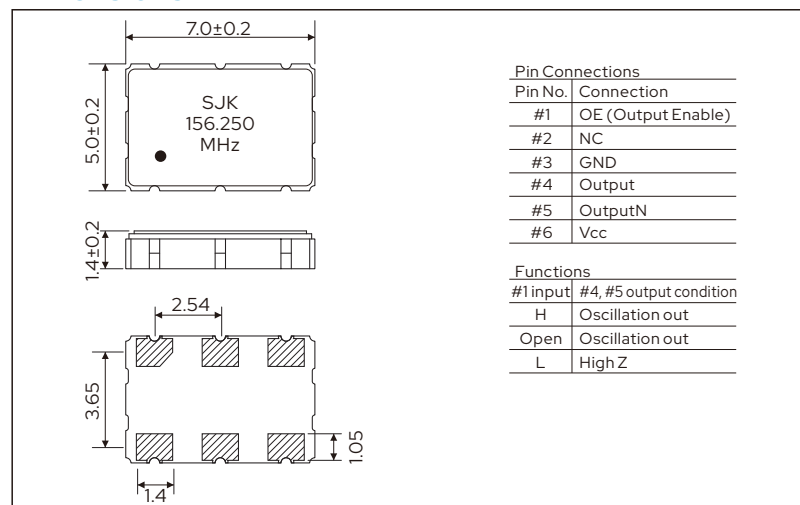
- SMD 7050 HCSL output high speed type crystal oscillator
- 3-state function
- Operating voltage: 1.8V / 2.5V / 3.3V
- High frequency range: 13.5MHz~700MHz
- Very low phase jitter: <1 pS (0.6 pS, Typ.) RMS
- Low phase noise and jitter
- Application for server, Optical transmission device, Base station, Ethernet, Telecommunications, Automotive, etc
- RoHS Compliant /Pb Free



Standard Specifications

Item	Type	7H Series SMD 7050 HCSL Crystal Oscillators		
Output Type		HCSL		
Load condition		50Ω		
Frequency Range		13.5MHz~220MHz	100MHz~175MHz	150MHz~700MHz
Supply Voltage		1.8V / 2.5V / 3.3V		
Frequency Stability (All Condition)		±25ppm, ±50ppm, ±100ppm, or specify		
Current Consumption		30mA max.	30mA max.	115mA max.
Stand-by Current		10μA max.		
Symmetry		45~55%		
0 Level Output Voltage (V _{OL})		-0.15V~0.15V	-0.15V~0.15V	-0.15V~0.15V
1 Level Output Voltage (V _{OH})		0.5V~0.9V	0.55V~1.0V	0.66V~1.15V
Rise Time / Fall Time		0.5ns max.		
OE Pin 0 Level Input Voltage (V _{IL})		0.3V _{CC} max.		
OE Pin 1 Level Input Voltage (V _{IH})		0.7V _{CC} min.		
Output Voltage Swing		400mV min.	450mV min.	450mV min.
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)		0.5ps max.	300fs max.	163fs typ.

Dimensions



Recommended Land Pattern [mm]

