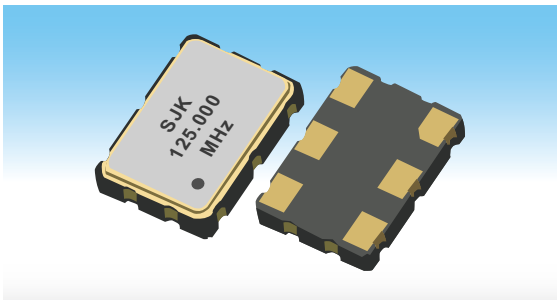
VCXO / Voltage Controlled Crystal Oscillator

7P Series SMD 7050 LVPECL VCXO | 10~2100MHz | O: LVPECL | Size: 7.0×5.0×1.4mm



Actual size

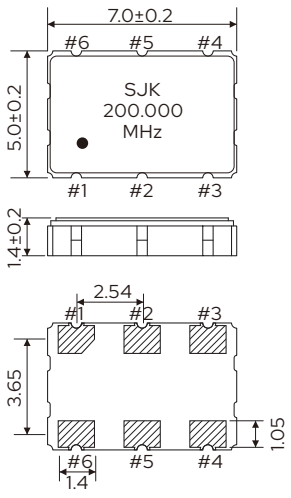
Features

- SMD 7050 LVPECL output high frequency VCXO
- 3-state function
- Operating voltage: 2.5V /3.3V
- High frequency range: 10MHz~2100MHz
- Low current consumption
- Low phase noise and jitter
- Application for set-top boxes, SONET /ATM, FPGAs, Fibre Channel, Wireless repeaters, Transponders, HDTV, etc
- RoHS Compliant /Pb Free

Standard Specifications

Item \ Type	7P Series SMD 7050 LVPECL VCXO	
Output Type	LVPECL	
Load condition	50Ω to Vcc-2V	
Frequency Range	10MHz~1500MHz	15MHz~2100MHz
Supply Voltage	2.5V / 3.3V	
Frequency Control Voltage	1.25V±1.0V / 1.65V±1.35V	
Frequency Stability (All Condition)	±25ppm, ±50ppm, ±100ppm, or specify	
Frequency Adjustment Range	±80ppm min., or specify	
Current Consumption	60mA max.	120mA max.
Current with Output Disable	16mA typ.	99mA typ.
Symmetry	45~55%	
0 Level Output Voltage (V_{OL})	Vcc-1.85V~Vcc-1.6V	Vcc-2.0V~Vcc-1.55V
1 Level Output Voltage (V_{OH})	Vcc-1.03V~Vcc-0.6V	Vcc-1.165V~Vcc-0.8V
Rise Time / Fall Time	0.5ns max.	0.4ns max.
OE Pin 0 Level Input Voltage (V_{IL})	0.3Vcc max.	
OE Pin 1 Level Input Voltage (V_{IH})	0.7Vcc min.	
Phase Jitter (12KHz~20MHz)	0.6ps max.	163fs max.
Start-up Time	10ms max.	
Linearity	10% max.	
Input Impedance	1MΩ typ.	5MΩ min.
Operating Temperature Range	-20~+70°C, -40~+85°C, or specify	
Storage Temperature Range	-55~+125°C	
Packing unit	1000 pcs./reel	

Dimensions

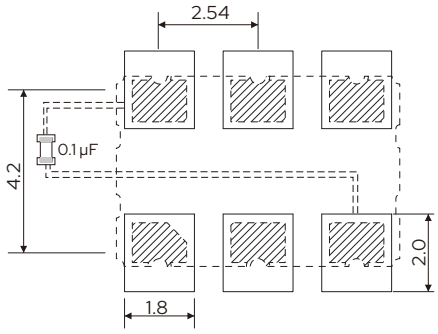


Pin Connections

Pin No.	Connection
#1	Vcont
#2	OE (Output Enable)
#3	GND
#4	Output
#5	OutputN
#6	Vcc

Functions

#2 input	#4, #5 output condition
H	Oscillation out
Open	Oscillation out
L	High Z

Recommended Land Pattern [mm]

Top View