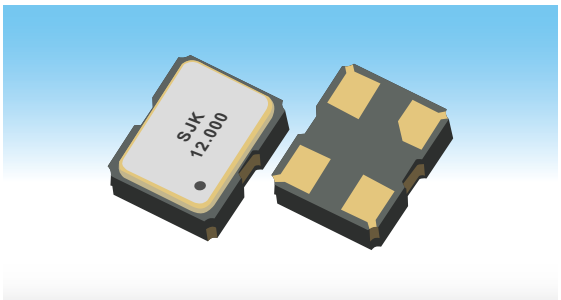
SPXO /SMD Crystal Oscillator

1N Series SMD 2016 Crystal Oscillator | 1~220MHz | O: CMOS | Size: 2.0×1.6×0.7mm



Actual size

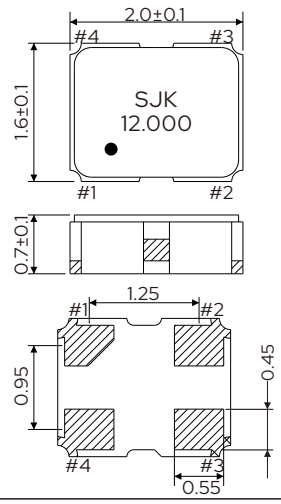
Features

- 2016 size, 0.7mm high. Ultra miniature and lightweight SMD crystal oscillators
- 3-state function
- Supply voltage: 1.8V~3.3V
- Available frequency range: 1MHz~220MHz
- Low jitter provides for high performance
- Application for smart phone, WiLAN, WiMAX, Bluetooth, PC, PC peripherals, Automotive multimedia device, etc
- RoHS Compliant /Pb Free

Standard Specifications

Item \ Type	1N Series SMD 2016 Crystal Oscillators
Output Type	CMOS
Load condition	15pF, or specify
Frequency Range	1MHz~220MHz
Supply Voltage	1.8V~3.3V
Frequency Stability (All Condition)	±20ppm, ±25ppm, ±30ppm, ±50ppm, or specify
Current Consumption	30mA max.
Stand-by Current	10μA max.
Symmetry	45~55%
0 Level Output Voltage (V_{OL})	0.1 Vcc max.
1 Level Output Voltage (V_{OH})	0.9 Vcc min.
Rise Time / Fall Time	5.0ns max.
OE Pin 0 Level Input Voltage (V_{IL})	0.2Vcc max.
OE Pin 1 Level Input Voltage (V_{IH})	0.8Vcc min.
Start-up Time	5ms max.
Operating Temperature Range	-20~+70°C, -40~+85°C, or specify
Storage Temperature Range	-55~+125°C
Phase Jitter (12KHz~20MHz)	1ps max.

Dimensions

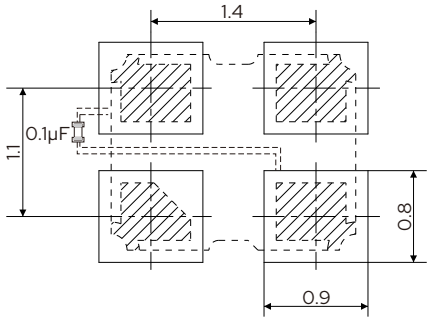


Pin Connections

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

Functions

#1 input	#3 output condition
H	Oscillation out
Open	Oscillation out
L	High Z

Recommended Land Pattern [mm]

Top View