

# CRYSTAL OSCILLATOR

## OSC81 Low Phase Jitter



### Applications

- Optical communication
- High-speed converter
- Server

### Features

- Small ceramic package / Dimensions (3.2\* 2.5 \*0.9)
- Low Phase Jitter  
Jitter 60 fs max @12KHz to 20MHz

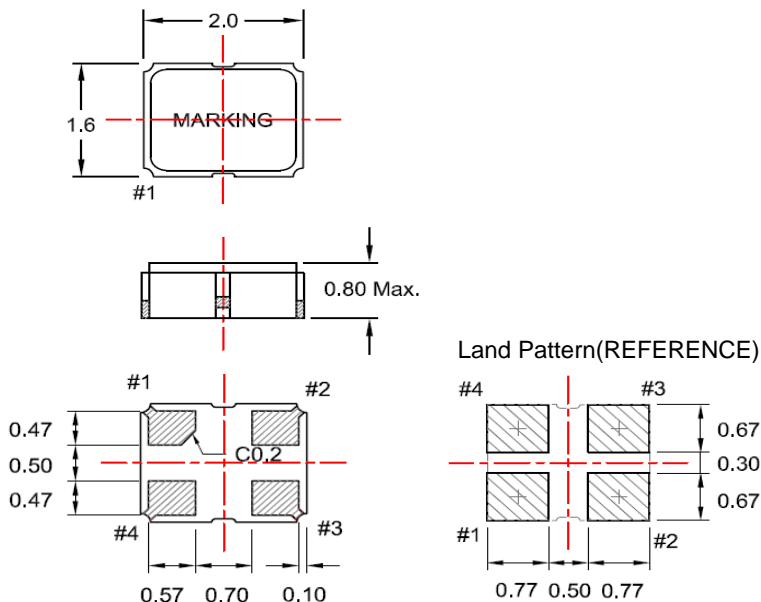
### Specifications



Model	OSC81		
Nominal frequency	10.0~50.0MHz		
Storage temperature range	-55 ~ +125 °C		
Operating temperature range	-40 ~ +125 °C		
Frequency stability	±50ppm / ±100ppm		
Frequency Temp. Characteristics	±50 ppm @ -40~+105 °C, +25 °C as the reference		
Power supply voltage	1.8V DC±10%	2.5V DC±10%	3.3V DC±10%
Current consumption	2.5mA max@~25M	5mA max@~25M	6mA max@~25M
	5mA max@~49.152M	8mA max@~49.152M	9mA max@~49.152M
Output level	C-MOS		
Load	15 pF.		
Output voltage level	VOL: 10%Vcc max. / VOH: 90%Vcc min.		
Rise & Fall time	7ns max. @10%Vcc ~ 90%Vcc		
Duty cycle	45%~55% at 50%Vcc		
Start-up time	5ms max.		
Phase Jitter	60 fs max. @12KHz to 20MHz		
Phase Noise	-168 dBm/Hz typ. @100KHz 3.3V 49.152MHz		

Package quantity : 3,000pcs max./Reel

### Outline and Dimensions [unit: mm]



Terminal	Connection
#1	Tri-state or N.C
#2	GND
#3	Output
#4	Vcc

Tri-state Function	
Tri-state pin	Output
High or Floating	Active
Low	HI-Impedance