



# CRYSTAL OSCILLATOR

## OSC81

### Applications

- Mobile phone / Wireless-LAN / PC-Card / DVD / DVC / DSC etc..

### Features

- Ceramic package / Dimensions (3.2 × 2.5 × 0.9)
- SMD Package / Low power supply voltage
- Low current consumption
- Wide range operating temperature (-40 ~ +85°C)
- Enable / Disable feature

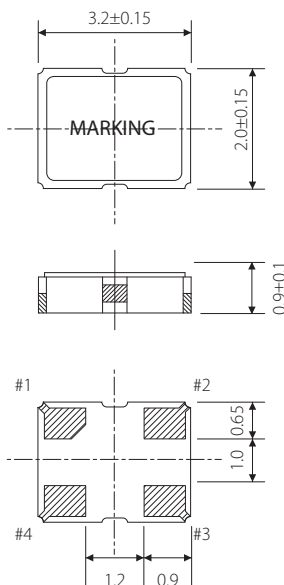
### Specifications



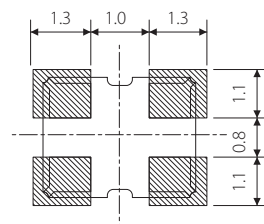
Model	OSC81		
Frequency range	0.625 ~ 80.000MHz		0.625 ~ 50.000 MHz
Storage temperature range	-55 ~ +100°C		
Operating temperature range	-20 ~ +70°C, -40 ~ +85°C		
Frequency stability	±30 × 10 <sup>-6</sup> , (-20 ~ 70°C), ±50 × 10 <sup>-6</sup> , ±100 × 10 <sup>-6</sup>		
Power supply voltage (Vdd)	+3.3V DC ± 5%	+2.5V DC ± 5%	+1.8V DC ± 5%
Current consumption	7 mA max: ~20MHz 13 mA max: ~40MHz 19 mA max: ~60MHz 24 mA max: ~75MHz	5 mA max: ~20MHz 9 mA max: ~40MHz 11 mA max: ~60MHz 14 mA max: ~75MHz	2.5 mA max: ~20MHz 3.0 mA max: ~40MHz 3.5 mA max: ~50MHz
Output level	C-MOS		
Load	15pF max.		
Output voltage level	V <sub>OL</sub> : 10%V <sub>DD</sub> max. / V <sub>OH</sub> : 90%V <sub>DD</sub> min.		
Rise & Fall time	10ns max. / 10%V <sub>DD</sub> - 90%V <sub>DD</sub>		
Duty cycle	45% ~ 55% at 1/2V <sub>DD</sub>		40% ~ 60% at 1/2V <sub>DD</sub>
Tri-state Function	#1: Floating or "H" → Output enable / #1: "L" → Output disable (Hi-Z)		

Package quantity: 3,000pcs max./Reel.

### Outline and Dimensions [unit:mm]



Example of a Terminal Land Pattern



Terminal	Connection
#1	Tri-state
#2	GND
#3	OUTPUT
#4	Vdd

Tri-state Function

Tri-state Pin	Output
High or Floating	Active
Low	Hi-impedance