

# CRYSTAL OSCILLATOR

## OSC93



### Applications

- Multimedia / ADSL / WLAN
- PCI-E, Wearable Devices
- Automotive

### Features

- Ceramic package / Dimensions (2.5×2.0×0.9)
- SMD Package / Low power supply voltage
- Wide range operating temperature (-40 ~ 125°C )
- Low current consumption
- Enable / Disable feature
- Compliant products with AEC-Q200

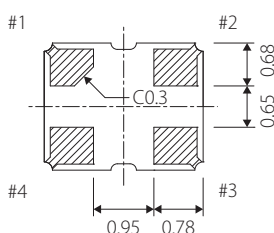
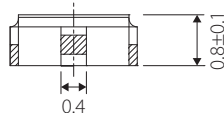
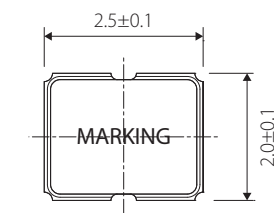
### Specifications



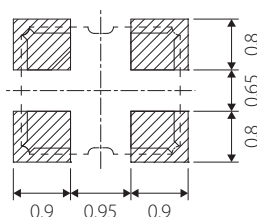
Model	OSC93		
Frequency range	0.5~133.0MHz		
Storage temperature range	-55 ~ +125°C		
Operating temperature range	-40~+85°C	-40 ~ +105°C	-40 ~ +125°C
Frequency stability	±25ppm/±50ppm		
Power supply voltage	1.8V DC±10%	2.5V DC±10%	3.3V DC±10%
Current consumption	2.5mA max@~20M	5mA max@~20M	6mA max@~20M
	3mA max@~40M	6mA max@~40M	7mA max@~40M
	5mA max@~60M	8mA max@~60M	9mA max@~60M
	10mA max@~125M	16mA max@~125M	18mA max@~133M
Output level	C-MOS		
Output load	15pF		
Output Voltage level	VoL: 10%Vcc max. / VoH: 90%Vcc min.		
Rise & Fall time	7ns max.@10%Vcc ~ 90%Vcc		
Duty cycle	45~55%@50%Vcc		
Start-up time	5ms max.		
Phase Jitter	1ps max.@12KHz to 20MHz		

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

### Outline and Dimensions [unit:mm]



Land Pattern(REFERENCE)



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