

# SMD Crystal Oscillators CMOS Output 5.0x3.2x1.2mm O53 Series



## Features

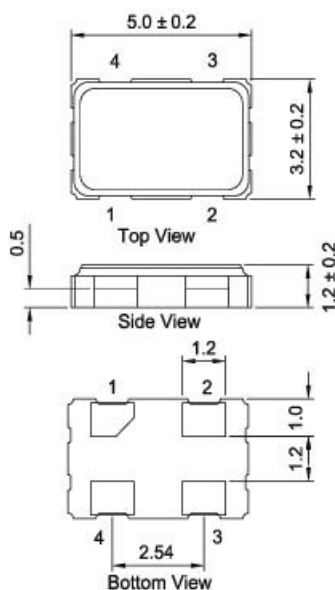
- Small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8V~5.0 V.
- High stability, low jitter, low power consumption.
- Main application : wireless communication set, PDA, and DSC.
- RoHS Compliant / Pb Free



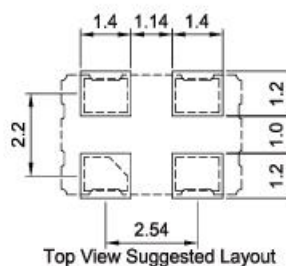
## Crystals specifications

ITEMS/TYPE	O53
Frequency Range	1~170MHz
Output Type	CMOS
Output Load	15pF , or specify
Oscillation Mode	Fundamental / 3rd Overtone
Supply Voltage	1.8V~5.0V, or specify
Frequency Stability	± 20 ppm , or specify
Operating Temperature Range	-40~+85 °C , or specify
Storage Temperature Range	-55~+125 °C
Voltage Vol ( Max. )/Voltage Voh ( Min. )	VOH=90%Vdd / VOL+10%Vdd
Rise ( Tr ) / Fall ( Tf ) Time	8 ns Max.
Current Consumption	20 mA Max.
Symmetry	40 ~ 60 %
Start-up Time	5 ms Max.
Phase Jitter ( 12 KHz ~ 20 MHz )	1 ps Max.
Aging ( at 25°C )	± 3 ppm / year Max.

## Dimensions and patterns(unit:mm)



PAD FUNCTION:  
1: ENABLE CONTROL  
2: GND  
3: OUT  
4: VDD



Units:mm