

# Programmable Crystal Oscillators 5.0x3.2x1.2mm RO53 Series



## Features

- Typical 5.0x3.2x1.2mm package.
- Operation supply voltage: 1.8V~3.3V.
- Fast delivery at any frequency.
- Low power consumption design.
- Frequency Stability  $\pm 25$ ppm over  $-40\sim+85^{\circ}\text{C}$ .
- RoHS compliant/Pb-free.



## Crystals specifications

ITEMS/TYPE	RO53
Frequency Range	1~200MHz
Output Type	CMOS
Output Load	15pF , or specify
Oscillation Mode	Fundamental / 3rd Overtone
Supply Voltage	1.8V~3.3V, or specify
Frequency Stability	$\pm 20$ ppm , or specify
Operating Temperature Range	$-40\sim+85^{\circ}\text{C}$ , or specify
Storage Temperature Range	$-55\sim+125^{\circ}\text{C}$
Voltage Vol ( Max. )/Voltage Voh ( Min. )	VOH=90%Vdd / VOL+10%Vdd
Rise ( Tr ) / Fall ( Tf ) Time	8 ns Max.
Current Consumption	30mA typ.
Symmetry	40 ~ 60 %
Start-up Time	5 ms Max.
Phase Jitter ( 12 KHz ~ 20 MHz )	1 ps Max.
Aging ( at $25^{\circ}\text{C}$ )	$\pm 3$ ppm / year Max.
Packing Unit(包装单位)	1,000pcs/Reel

## Dimensions and patterns(unit:mm)

