

# SMD Crystal Oscillators

## CMOS Output

### 5.0x3.2x1.2mm AO53 Series



#### Features

- Ultra small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to high frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8 V~3.3 V.
- High stability, low jitter , low power consumption.
- RoHS Compliant / Pb Free.



#### Crystals specifications

ITEMS/TYPE	AO53
Frequency Range	1~54MHz
Output Type	CMOS
Output Load	15pF , or specify
Oscillation Mode	Fundamental
Supply Voltage	1.8V~3.3V, or specify
Frequency Stability	± 25ppm, 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	5ns Max.
Current Consumption	10mA Max.
Symmetry	45 ~ 55%
Start-up Time	5 ms Max.
Phase Jitter (12KHz ~ 20MHz )	1 ps Max.
Aging ( at 25°C )	± 3 ppm / year Max.
Reliability Standard	AEC-Q100
Packing Unit	1,000pcs/Reel

#### Dimensions and patterns(unit:mm)

