

# SMD Crystal Oscillators CMOS Output 2.5x2.0x0.8mm AO22 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	AO22
Frequency Range	1~54MHz
Output Type	CMOS
Output Load	15 pF, or specify
Oscillation Mode	Fundamental
Supply Voltage	1.8V~3.3V, 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	8ns Max.
Current Consumption	10mA Max.
Symmetry	45 ~ 55 %
Start-up Time	5ms Max.
Phase Jitter ( 12 KHz ~ 20 MHz )	1ps Max.
Aging ( at 25°C )	± 3 ppm / year Max.
Reliability Standard	AEC-Q100
Packing Unit	3000pcs/Reel

## Dimensions and patterns(unit:mm)

