

SMD Crystal Oscillators

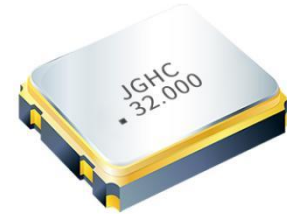
CMOS Output

3.2x2.5x1.0mm AO32 Series



Features

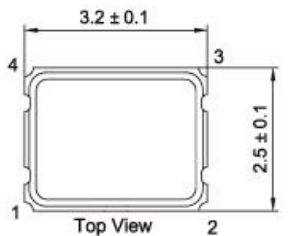
- Ultra small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to high frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8 V~3.3 V.
- High stability, low jitter , low power consumption.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



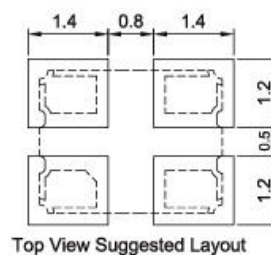
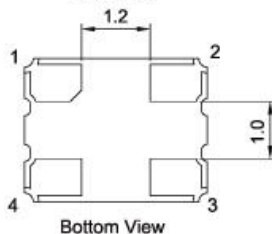
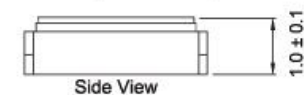
Crystals specifications

ITEMS/TYPE	AO3
Frequency Range	1~170MHz
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 ~ +125°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

Dimensions and patterns(unit:mm)



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



Units: mm