

SMD Crystal Oscillators

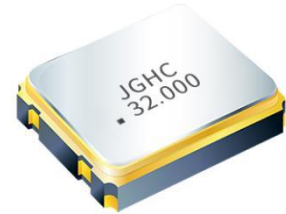
CMOS Output

3.2x2.5x1.0mm O32 Series



Features

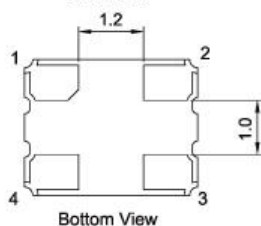
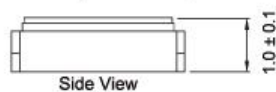
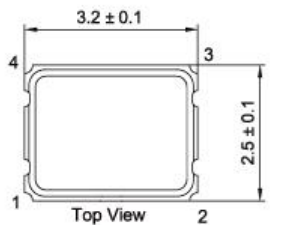
- Small SMD seam sealed clock crystal oscillator units.
- High precision characteristic covering up to wide frequency range.
- Designed for automatic mounting and reflow soldering.
- Tri-State function available.
- Supply voltage range : 1.8V~3.3V.
- High stability, low jitter, low power consumption.
- Main application : wireless communication set, PDA, and DSC.
- RoHS Compliant / Pb Free



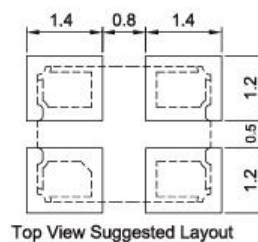
Crystals specifications

ITEMS/TYPE	O32
Frequency Range	1~170MHz
Output Type	CMOS
Output Load	15 pF , or specify
Oscillation Mode	Fundamental / 3rd Overtone
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	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.
Packing Unit	3,000pcs/Reel

Dimensions and patterns(unit:mm)



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



Units:mm