

SMD Crystal Oscillators

CMOS Output

2.0x1.6x0.75mm O21 Series



Features

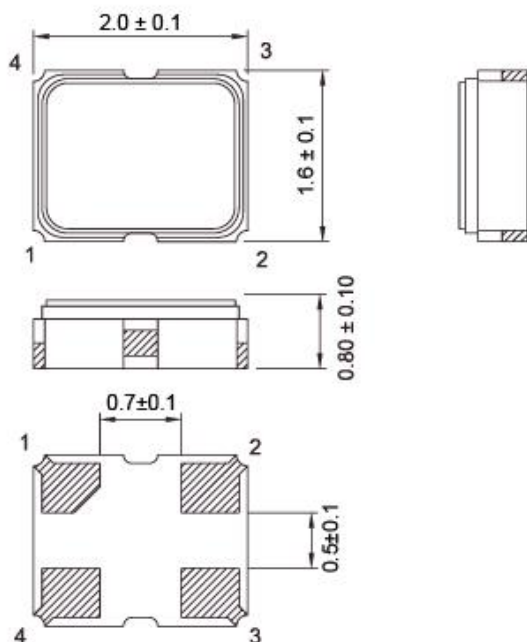
- Extremely small SMD seam sealed clock oscillator unit.
- Application for smart phone, sip module, variety of compact portable consumer products.
- Tri-state function available.
- High reliable environmental performance.
- RoHS Compliant / Pb Free.



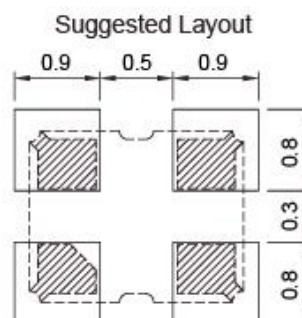
Crystals specifications

ITEMS/TYPE	O21
Frequency Range	1~125MHz
Output Type	CMOS
Output Load	15 pF , or specify
Oscillation Mode	Fundamental
Supply Voltage	1.8V~5.0V, 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.

Dimensions and patterns(unit:mm)



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



Units:mm