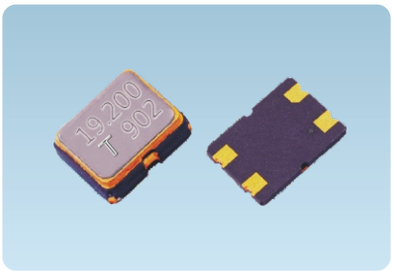
Crystal Oscillator

RoHS compliance

TO1 TYPE

Typical 2.05 × 1.65 × 0.75 mm

Low phase jitter



Feature

- Typical 2.05 × 1.65 × 0.75 mm ceramic SMD package.
- Tight symmetry (45 to 55%) available.
- Low phase jitter.
- Operation voltage:1.8V,2.5V,3.3V.
- Packing:Tape & Reel,3000 pcs per Reel.

Typical Application

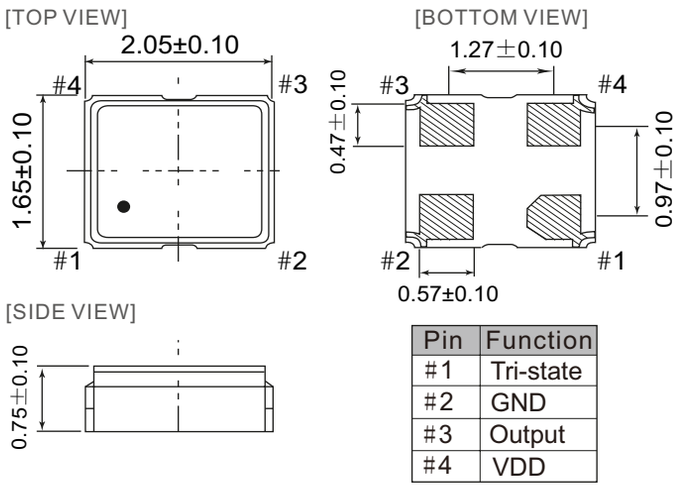
- WLAN/WiMax
- DSC,Set - top Box,HDTV
- Mobile Phone

Specifications

Parameter	3.3V		2.5V		1.8V		Unit
	Min	Max	Min	Max	Min	Max	
Supply Voltage Variation(VDD)	2.97	3.63	2.25	2.75	1.62	1.98	V
Frequency Range	1.5	50	1.5	50	1.5	50	MHz
Supply Current	–	15	–	10	–	7	mA
Duty Cycle	45	55	45	55	45	55	%
Output Level(CMOS)							
Output High(Logic"1")	90% V_{DD}	–	90% V_{DD}	–	90% V_{DD}	–	V
Output Low(Logic"0")	–	10% V_{DD}	–	10% V_{DD}	–	10% V_{DD}	
Transition Time;Rise/Fall Time+							
1 MHz Fo < 20MHz		4		4		5	nSec
20MHz ≤ Fo < 50MHz		3		3		4	
Start Time	2Max.						mSec
Tri-State(Input to Pin 1)							
Enable(High voltage floating)	0.7 V_{DD} Min.						V
Disable(Low voltage or GND)	0.3 V_{DD} Max.						
RMS Phase Jitter (Integated 12K~20MHz)	1Max.						pSec
Standby Current	10Max.						μA
Aging (@25℃ 1st year)	±3Max.						ppm
Storage Temp. Range	-55~125						°C

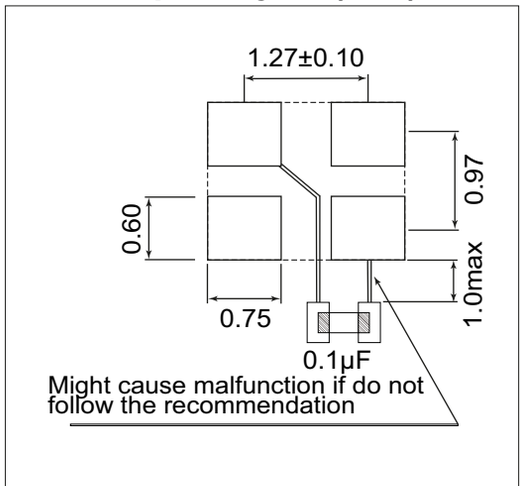
+Transition times are measures between 10% and 90% of VDD,With an output load of 15pF.

Dimension(mm)



Pin	Function
#1	Tri-state
#2	GND
#3	Output
#4	VDD

Solder pad layout(mm)



Frequency Stability Vs. Temperature Range

Temp.(℃) \ Ppm	±20	±25	±50
-10 ~ +60	✓	✓	✓
-20 ~ +70	+	✓	✓
-40 ~ +85	×	+	✓
-40 ~ +125	×	×	✓

✓ Available + Conditional × Not Available

Inclusive of calibration @25℃,operating temperature range, input voltage variation,load variation,aging(1st year), shock,and vibration