

NI Type 36.3 x 27.2 mm Oven Controlled Crystal Oscillator

FEATURE

- Dimension 36.3 x 27.2 x 12.7 mm typical.
- SC Cut Crystal.

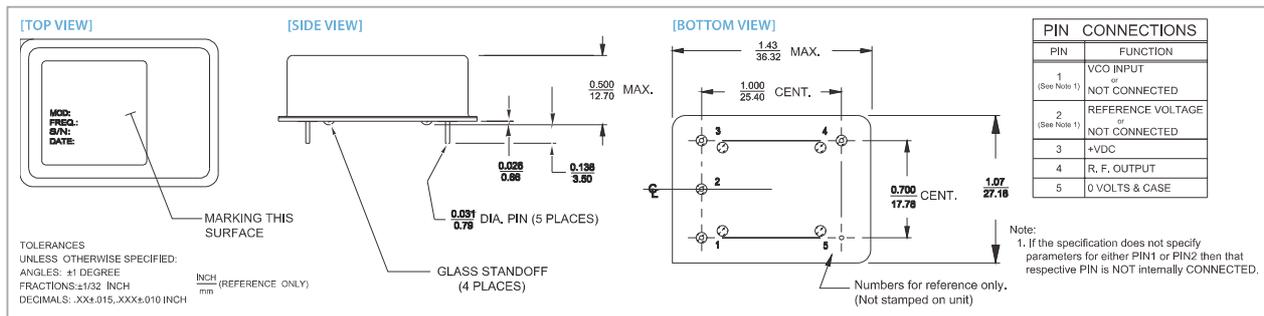
TYPICAL APPLICATION

- SDH/SONET, Telecommunication base station
- Test and measurement equipment
- Synthesizer, Digital switch, Reference Timing Circuit



RoHS Compliant

DIMENSION



ELECTRICAL SPECIFICATION

Parameter	Min.	Typ.	Max.	Unit	Test Condition & Notes
Output Frequency		10		MHz	Available frequency range is from 5MHz to 40MHz. Standard frequencies are 10, 12.8, 13, 15.36, 19.2, 20, 25 and 38.88MHz.
Waveform		Rectangular			Sine wave output is available. Consult factory for more information.
Level		LVTTTL			
"1" Level	2.4			V	
"0" Level			0.4		
Load		15		pF	
Duty cycle	45	50	55	%	@ +1.4 V
Spurious			-60	dBc	
Frequency Stability Ambient	-5.0		+5.0	ppb	-40°C to +85°C, referenced to +25°C Refer to Freq. Stability Vs Temp. Range table..
Aging	-0.5		+0.5	ppb	Per day, at time of shipment
Daily	-0.5		+0.5	ppb	after 30 days
Yearly	-50		+50	ppb	
10 years	-0.3		+0.3	ppm	
Voltage	-0.5		+0.5	ppb	±5% Change
Warm-up	-10		+10	ppb	In 10 minutes @ +25°C, referenced to 1 hour
Phase Noise			-120	dBc/Hz	@ 10 Hz
			-135		@ 100 Hz
			-145		@ 1 kHz
			-150		@ 10 kHz
Electrical Frequency Adjustment					
Range	0.5		-0.5	ppm	V _{CO} @ 0 V V _{CO} @ +5.0 V
Control	0	2.5	5.0	V	
Slope		Positive			
Input impedance	100			kΩ	
Input Power Voltage	4.75	5.0	5.25	V	3.3V input voltage is available. Consult factory for control voltage and output level.
Current			850	mA	@ turn on
Steady state			1.3	W	@ +25°C

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppb		
	±3	±5	±10
0 ~ +70	○	○	○
-30 ~ +70	△	○	○
-40 ~ +85	△	○	○

* ○: Available △: Conditional X: Not available

Note: not all combination of options are available. Other specifications may be available upon request.

Rev(12)04/2015

www.taitien.com

sales@taitien.com.tw

Specifications subject to change without notice.