

NA Type

25.4 x 25.4 mm Oven Controlled Crystal Oscillator

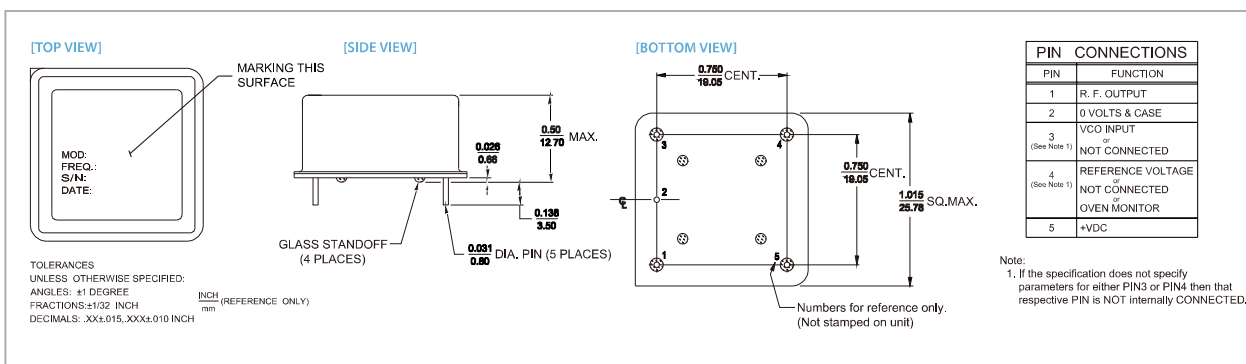
FEATURE

- Dimension 25.4 x 25.4 x 12.7 mm typical.
- SC Cut Crystal.

APPLICATION

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

DIMENSION



RoHS Compliant

ELECTRICAL SPECIFICATION

Parameter		Min.	Typ.	Max.	Unit	Test Condition & Notes
Output	Frequency		10		MHz	Available frequency range is from 5Hz to 40MHz. Standard frequencies are 10, 12.8, 13, 15.36, 19.2, 20, 25, 38.88MHz.
	Waveform		Rectangular			Since 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	-10		10	ppb	-30°C to +70°C, referenced to +25°C Refer to Freq. Stability Vs Temp. Range table
	Aging					
	Daily	-0.5		0.5	ppb	after 30 days
	Yearly	-50		50		
	10 years	-0.3		+0.3	ppm	
	Voltage	-5.0		5.0	ppb	±5% hange
	Warm-up	-10		10		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	VCO @ 0 V
	Control					VCO @ +3.3 V
	Slope	0	1.65 Positive	3.3	V	
	Input impedance	100			kΩ	
Input Power	Voltage	3.135	3.3	3.465	V	5.0V input voltage is available. Consult factory for control voltage and output level.
	Current			1000	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)03/2015

www.taitien.com

sales@taitien.com.tw