

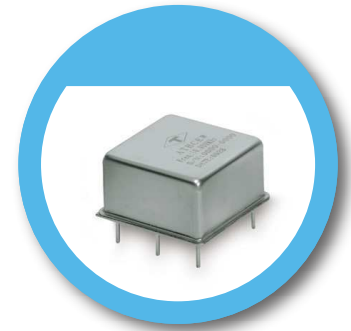
NA Type 25.4 x 25.4 mm Oven Controlled Crystal Oscillator

FEATURE

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

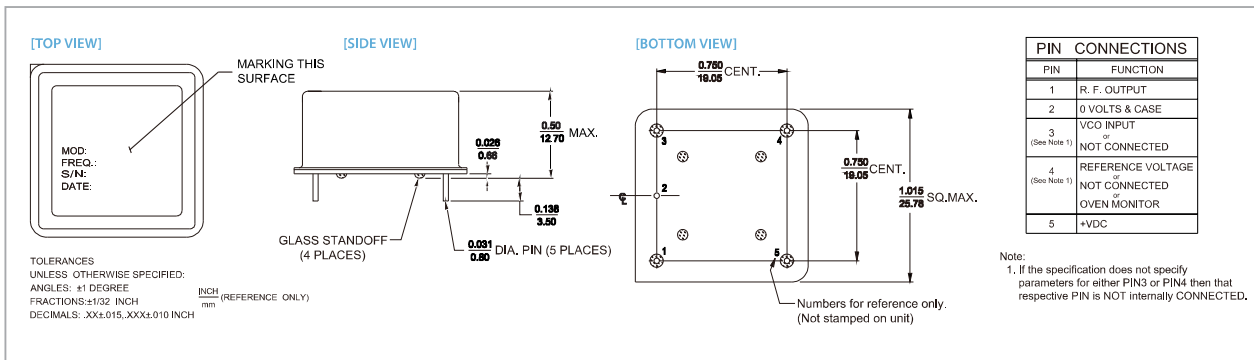
APPLICATION

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



RoHS Compliant

DIMENSION



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 VCO @ +3.3 V	
Control	0	1.65	3.3	V		
Slope		Positive				
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.

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