

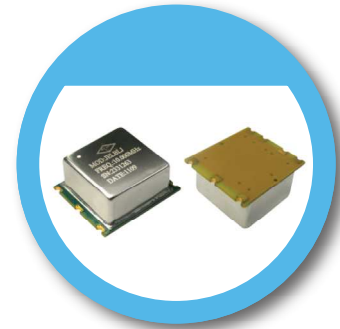
# NJ Type 25.4 x 22.1 mm Oven Controlled Crystal Oscillator

## FEATURE

- Dimension 25.4 x 22.1 x 11.0 mm typical.
- SC Cut Crystal.

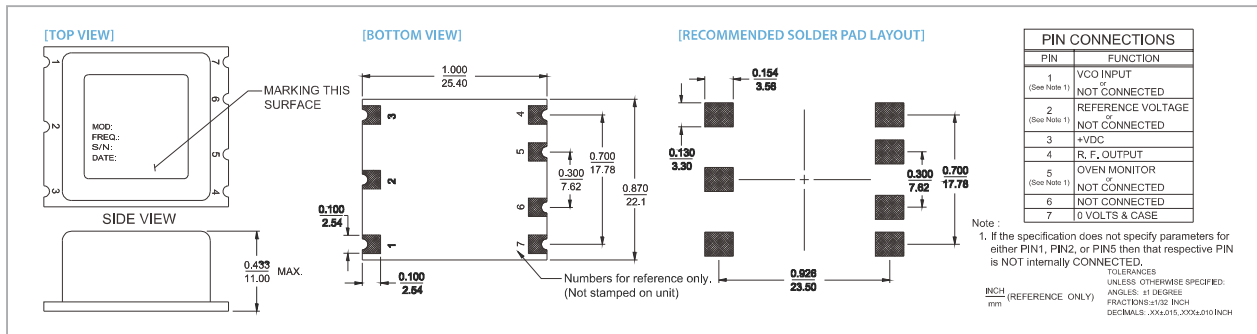
## TYPICAL APPLICATION

- 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	
<b>Output</b>	Frequency	10		MHz	Available frequency range is from 5MHz to 40MHz. Standard frequencies are 10, 12.8, 15.36, 16.384, 19.2, 20 and 25MHz.	
	Waveform		Rectangular		Sine wave output is available. Consult factory for more information.	
	Level		HCMOS			
	"1" Level	+2.4	+3.3		V	
	"0" Level			+0.4		
	Load		15		pF	
Duty cycle	45	50	55	%	@ +1.4V	
Spurious			-60	dBc		
<b>Frequency Stability</b>	Ambient	-10		+10	ppb	0°C to +70°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	-0.4		+0.4	ppm	
	Voltage	-0.5		+0.5	ppb	±5% Change
	Warm-up	-10		+10	ppb	In 2 minutes @ +25°C, referenced to 1 hour
<b>Phase Noise</b>				-115	dBc/Hz	@ 10 Hz
				-130		@ 100 Hz
				-140		@ 1 kHz
				-150		@ 10 kHz
<b>Electrical Frequency Adjustment</b>						
Range	+0.5		-0.5	ppm	VCO @ 0 V	
Control	0	1.4	2.8	V	VCO @ +2.8 V	
Slope		Positive				
Input impedance	100			kΩ		
<b>Input Power</b>	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			1.2	W	@ +25°C
<b>Reference Voltage</b>	Voltage	2.7	2.8	2.9	V	
	Load	9			kΩ	

## FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppb		
	±5	±10	±20
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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Specifications subject to change without notice.