

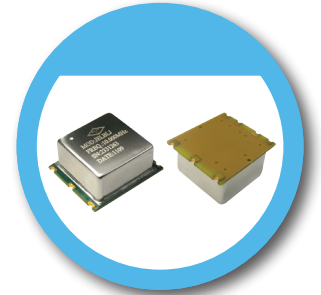
25.4 x 22.1 Oven Controlled Crystal Oscillator – NJ Type

FEATURE

- Dimension 25.4 x 22.1 x 11.0 mm typical.
- SC Cut Crystal.
- High stability ; Low Phase Noise.
- Packing: 40pcs/Box, 5 Box/Carton, 200pcs /Carton

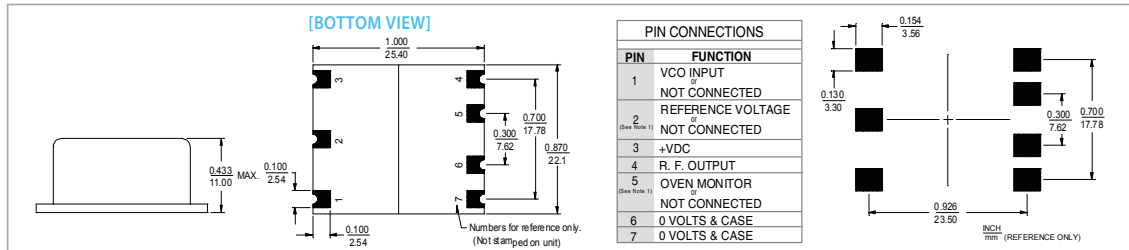
TYPICAL APPLICATION

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



RoHS Compliant Standard

DIMENSION



ELECTRICAL SPECIFICATION

Parameter	Min.	Nominal	Max.	Unit	Test Condition	
Output	Frequency	10		MHz		
	Wave Form		CMOS			
	Level "1"	2.4		V		
	Level "0"		0.4			
Load		15		pF		
	Spurious		-70	dBc		
	Frequency Stability	Ambient		±30	ppb	Referenced to +25°C
		Operating Temperature	0		+70	°C
Aging						
At time of shipment			±1.0	ppb	After 30 days	
After indefinite storage - Daily			±1.0			
- Yearly			±100			
- 10 years			±350			
Voltage			±10		±5% Change	
Warm-up			±20		In 5 minutes @ +25°C (Referenced to 1 Hour)	
Phase Noise @ 10 MHz			-115	dBc	@ 10Hz	
			-135		@ 100Hz	
			-140		@ 1KHz	
			-140		@ 10KHz	
Electrical Frequency Adjustment	Range	0.4		1.0	±ppm	
	Control	0.0		2.8	V	
	Slope		Positive			
	Center	1.0	1.4	1.8	V	Control Voltage at which nominal Frequency occurs at time of shipment
Input Power	Input impedance	100			KΩ	
	Voltage	3.14	3.3	3.46	V	
	Current			3.0	W	@ turn on
Reference Voltage	Steady state			1.0	W	@ 25°C
	Voltage	2.72	2.8	2.88	V	Optional 4.0V (Note1), 5.0V (Note2)
Load		9.0		∞	KΩ	
	Temperature Stability			±0.01	VDC	

Standard frequencies are frequencies which the crystal has been designed and does not imply a stock position.

Note 1: For all +5.0V input power units. Note2: For all +12V input power units.

*All aging stabilities are after storage of up to 1 year and apply after 30 days of continuous operation.

The daily aging rate also applies at the time of shipment from factory.

*The Electrical Frequency Adjustment Range is sufficient for the life of the oscillator. Specification subject to change with frequency.

Available Frequency Range: 5MHz to 40 MHz including 5.0, 10.0, 16.384, 19.44, 24.576 and 32.768 MHz

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppb	±3	±5	±10
0 ~ +70		○	○	○
-20 ~ +70		△	○	○
-40 ~ +85		×	△	○

* ○: Available △: Conditional X: Not available