

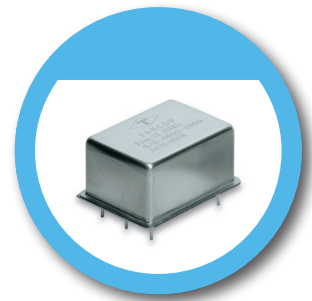
36.3 x 27.2 Oven Controlled Crystal Oscillator – NI Type

FEATURE

- Dimension 36.0 x 27.2 x 18.7 mm typical.
- SC Cut Crystal.
- High stability ; Low Phase Noise.
- Sine Wave or CMOS output ; Fast warm-up.
- Packing: 40pcs/Box, 5 Box/Cartron, 200pcs /Cartron.

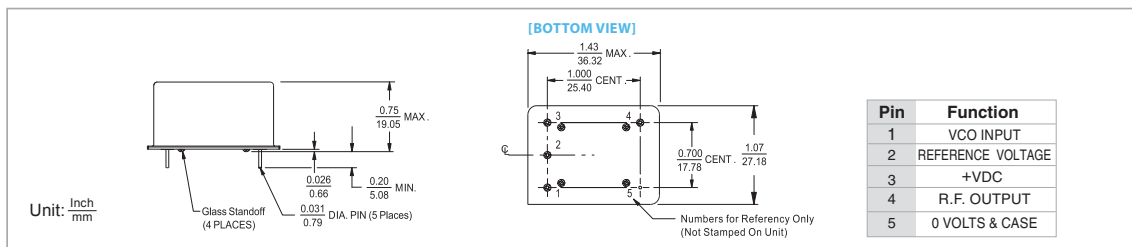
TYPICAL APPLICATION

- 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		Sine Wave			
Level	6.0	8.0	10.0	dBm	
Load		50		Ω	
Harmonics		-30		dBc	
Spurious		-60			
Frequency Stability					
Ambient			± 20	ppb	Referenced to +25°C
Operating Temperature	-30		+70	°C	
Aging					
At time of shipment			± 0.5	ppb	After 30 days
After indefinite storage - Daily			± 0.5		
- Yearly			± 100		
- 10 years			± 300		
Voltage			± 5	dBc	$\pm 5\%$ Change
Warm-up			± 20		In 4 minutes @ +25°C (Referenced to 4 Hour)
Phase Noise @ 10 MHz			-120		@ 10Hz
			-135		@ 100Hz
			-150		@ 1KHz
			-150		@ 10KHz
			-150		@ 100KHz
Electrical Frequency Adjustment					
Range	0.4		0.9	$\pm$ ppm	
Control	0.0		8.0	V	
Slope		Positive			
Center	3.2	4.0	4.8	V	Control Voltage at which nominal Frequency occurs at time of shipment
Input impedance	100			K Ω	
Input Power					
Voltage	11.4	12.0	12.6	V	
Current			3.8	W	@ turn on
Steady state			1.5		@ 25°C
Reference Voltage					
Voltage	7.6	8.0	8.4	V	Optional 4.0V (Note1), 5.0V (Note2)
Load	9.0		∞	K Ω	
Temperature Stability			± 0.015	VDC	

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

Note 1: For all +5V input power units. Note 2: For +12 V CMOS 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 80 MHz including 5.0, 10.0, 16.384, 19.44, 24.576 and 32.768 MHz.

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppb	± 2	± 5	± 10
0 ~ +70		○	○	○
-20 ~ +70		○	○	○
-40 ~ +85		△	○	○

* ○: Available △: Conditional X: Not available