

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/Carton, 200pcs /Carton.

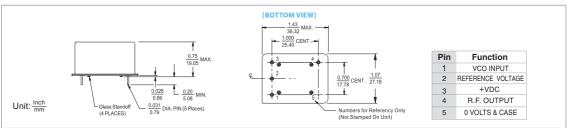
TYPICAL APPLICATION

- 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		Sine Wave			
	Level	6.0	8.0	10.0	dBm	
	Load		50		Ω	
	Harmonics		-30		dBC	
	Spurious		-60		UBC	
Frequency Stability						
Ambient				±20	ppb	Referenced to +25°C
Operating Temperature		-30		+70	°C	
Aging						
At time of shipment				±0.5		
After indefi	nite storage - Daily			±0.5	ppb	After 30 days
	- Yearly			±100		•
	- 10 years			±300		
Voltage Warm-up Phase Noise @ 10 MHz				±5		±5% Change
				±20		In 4 minutes@ +25°C (Referenced to 4 Ho
				-120	dBc	@ 10Hz
				-135		@ 100Hz
				-150		@ 1KHz
				-150		@ 10KHz
				-150		@ 100KHz
Electrical Frequency	/ Adjustment					
	Range	0.4		0.9	±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 shipmer
	Input impedance	100			ΚΩ	
Input Power	Voltage	11.4	12.0	12.6	V	
	Current			3.8	W	@ turn on
	Steady state			1.5	VV	@ 25°C
Reference Voltage	Voltage	7.6	8.0	8.4	V	Optional 4.0V (Note1), 5.0V (Note2)
······································	Load	9.0			ΚΩ	
	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)	±2	±5	±10					
0 ~ +70	0	0	0					
-20 ~ +70	0	0	0					
-40 ~ +85	\triangle	0	0					

^{* ○:} Available △: Conditional X: Not available