

20.4 x 12.8 mm Oven Controlled Crystal Oscillator – NF Type

FEATURE

- Dimension 20.4 x 12.8 x 11.0 mm typical, standard DIP 14 package.
- Stratum 3 (Overall ± 4.6 ppm including 10 years aging.)
- AT Cut Crystal.
- Packing: 40pcs/Box, 6 Box/Carton, 240pcs /Carton.

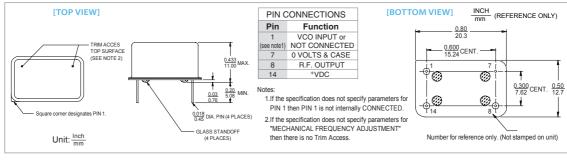
TYPICAL APPLICATION

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

DIMENSION



RoHS Compliant Standard



ELECTRICAL SPECIFICATION

	Parameter	Min.	Nominal	Max.	Unit	Test Condition
Output	Frequency	10, 12, 20, 24, 26, 38.88		MHz		
	Wave Form		CMOS			
	Level "1"	3.5			v	
	Level "0"			0.3		
	Load		15		pF	
	Spurious			-60	dBc	
Frequency	Stability					
Ambient				±200	ppb	Referenced to +25°C
Operating Temperature		-30		+70	°C	
Storage Temp. Range		-40		+85	°C	
Aging						
At time of shipment				±0.5	ppm	
After indefinite storage - Daily - Yearly - 10 years Voltage		_		±5.0	ppb	
				±0.5	ppm	
				±4.6		Overall
				±50	ppb	±5% Change
Warm-up				±150		In 5 minutes@ +25°C (Referenced to 30Minute
Phase Noise @ 10 MHz			-85			@ 10Hz
			-115		dBc	@ 100Hz
			-135		abe	@ 1KHz
			-140			@ 10KHz
Electrical F	requency Adjustment					
	Range	5			ppm	
	Control	0		5	V	
	Slope		Positive			
	VCO Input impedance	100			ΚΩ	
Input Power		4.75	5	5.25	V	
	Current		215		mA	turn on
	Steady state		110			@ 25°C

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

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	±50	±100	±200	
0 ~ +70	0	0	0	
-20 ~ +70	\bigtriangleup	0	0	
-40 ~ +85	×	Δ	0	* O: A

: Available .: Conditional X: Not available

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