

# 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.

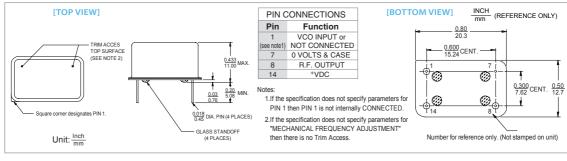
#### **TYPICAL APPLICATION**

- 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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