

NP Type

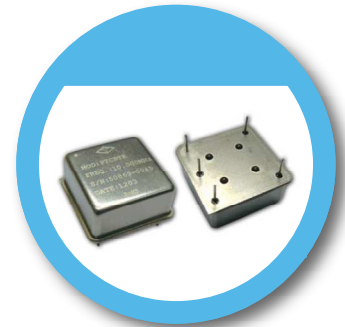
20.6 x 20.6 mm Oven Controlled Crystal Oscillator

FEATURE

- Dimension 20.6 x 20.6 x 11.0 mm typical.
- SC Cut Crystal.

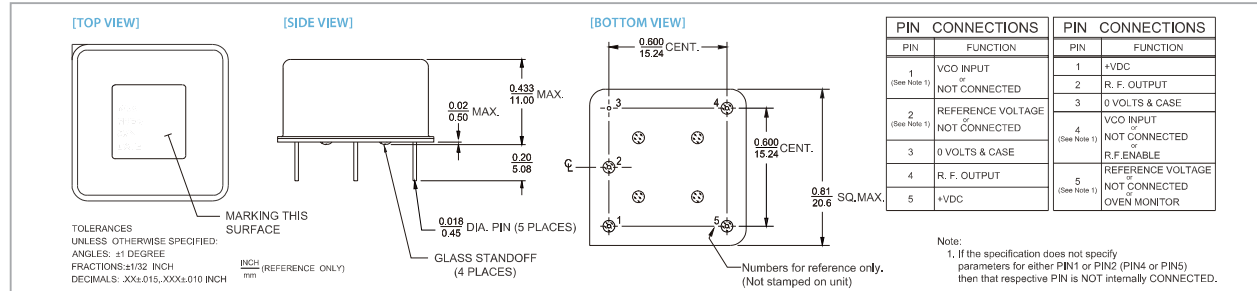
TYPICAL APPLICATION

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



RoHS Compliant

DIMENSION



ELECTRICAL SPECIFICATION

Parameter	Min.	Typ.	Max.	Unit	Test Condition & Notes
Output Frequency		10		MHz	Available frequency range is from 5MHz to 40MHz. Standard frequencies are 10, 12.8, 13, 15.36, 16.384, 19.2, 20 and 25MHz.
Waveform		Rectangular			Sine wave output is not available. Consult factory for more information
Level		HCMOS			
"1" Level	3.5			V	
"0" Level			+0.5	V	
Load		15		pF	
Duty cycle	45	50	55	%	@ +2.0V
Spurious			-60	dBc	
Frequency Stability Ambient	-10		+10	ppb	-30°C to +70°C, referenced to +25°C
Aging	-0.5		+0.5	ppb	Refer to Freq. Stability Vs Temp. Range table.
Daily	-0.5		+0.5	ppb	Per day, at time of shipment
Yearly	-50		+50	ppb	after 30 days
10 years	-0.3		+0.3	ppm	
Voltage	-0.5		+0.5	ppb	±5% Change
Warm-up	-50		+50	ppb	In 3 minutes @ +25°C, referenced to 1 hour
Phase Noise			-115	dBc/Hz	@ 10 Hz
			-135	dBc/Hz	@ 100 Hz
			-145	dBc/Hz	@ 1 kHz
			-150	dBc/Hz	@ 10 kHz
Electrical Frequency Adjustment			-0.5	ppm	VCO @ 0 V
Range	0.5			V	VCO @ +4.0 V
Control	0	2	4	V	
Slope		Positive			
Input impedance	100			kΩ	
Input Power Voltage	4.75	5	5.25	V	3.3V input voltage is available. Consult factory for control voltage and output level.
Current			500	mA	@ turn on
Steady state			1.0	W	@ +25°C
Reference Voltage					
Voltage	3.8	4.0	4.2	V	
Load	9			kΩ	

FREQ. STABILITY vs. TEMP. RANGE

Temp. (°C)	ppb	±5	±10	±20
0 ~ +70	○	○	○	○
-30 ~ +70	△	○	○	○
-40 ~ +85	△	○	○	○

* ○: Standard △: Available (case by case) X: Not available

Note: not all combination of options are available. Other specifications may be available upon request.

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