

OCXO

6.3 TOC2012

20.3 x 12.7 mm Oven Controlled
Crystal Oscillator

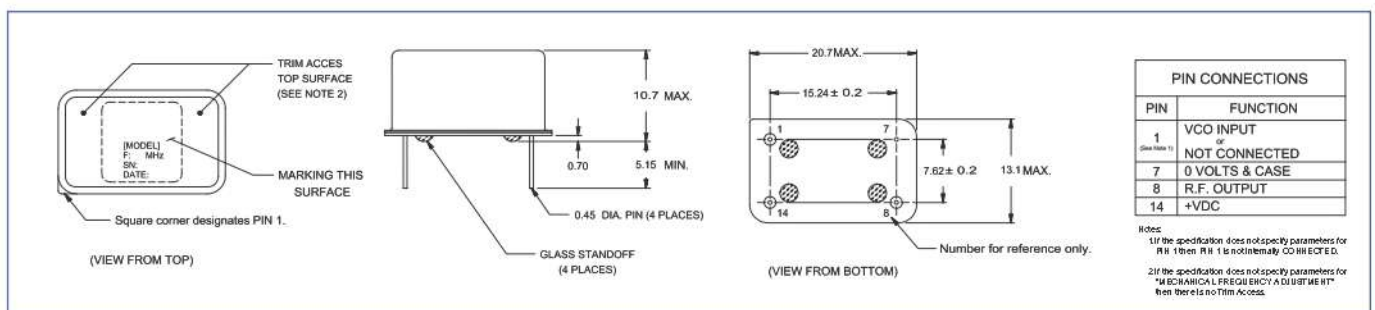
FEATURES

- Dimension 20.3 x 12.7 x 11.0 mm typical
- Stratum 3 (Overall ± 4.6 ppm including 10 years aging)

TYPICAL APPLICATION

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

DIMENSIONS



ELECTRICAL SPECIFICATION

Parameter		Min.	Typ.	Max.	Unit.	Test Condition
Output Frequency		—	10	—	MHz	Available frequency range is from 5MHz to 40MHz. Standard frequencies are 10, 12.8, 15.36, 19.2, 20, 26 and 38.88MHz.
Waveform		—	Rectangular	—	—	Please contact us for detail information.
Level	"1" Level	2.4	—	—	V	@+2.0V
	"0" Level	—	—	0.4		
	Load	—	15	—	pF	
	Duty Cycle	45	50	55	%	
	Spurious	—	—	-60	dBc	
Frequency Stability	Ambient	-0.1	—	+0.1	ppm	-30 ~ +70°C, referenced to +25°C Refer to Freq. Stability Vs Temp. Range table.
	Aging	-5.0	—	+5.0	ppb	Per day, at time of shipment.
	Daily	-5.0	—	+5.0	ppb	after 30 days
	Yearly	-0.5	—	+0.5	ppm	
	10 years	-3.0	—	+3.0		
	Voltage	-50	—	+50	ppb	±5% Change
	Warm-up	-0.1	—	+0.1	ppm	In 2 minutes @ +25°C, referenced to 1 hour.
Phase Noise @20 MHz		—	—	-105	dBc/Hz	@10 Hz
		—	—	-130		@100 Hz
		—	—	-140		@1 kHz
		—	—	-150		@10 kHz

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Parameter		Min.	Typ.	Max.	Unit.	Test Condition
Electrical Frequency Adjustment	Range	—	—	-5.0	ppm	VCO@ 0V
		5.0	—	—		VCO@ 5.0V
	Control	0	2.5	5.0	V	
	Slope	—	Positive	—		
	Input impedance	100	—	—	kΩ	
Input Power	Voltage	4.75	5.0	5.25	V	3.3V input voltage is available. Consult factory for control voltage and output level.
	Current	—	—	400	mA	@ turn on
	Steady state	—	—	0.8	W	@ +25°C

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C)	ppb	±50	±100	±200
0 ~ +70		○	○	○
-30 ~ +70		△	○	○
-40 ~ +85		△	○	○

*○: Available △: Condition X: Not available

Note: not all combination of options are available. Other specifications may be available upon request.
Specifications subject to change without notice.