

OCXO

6.6 TOC2525

25.4 x 25.4 mm Oven Controlled
Crystal Oscillator

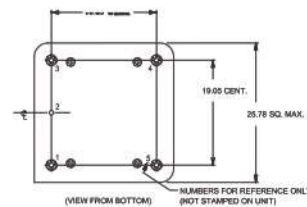
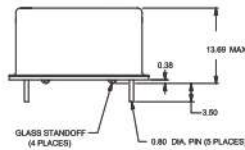
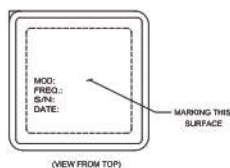
FEATURES

- Dimension 25.4 x 25.4 x 12.7 mm typical
- SC Cut Crystal

TYPICAL APPLICATION

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

DIMENSIONS



PIN CONNECTIONS	
PIN	FUNCTION
1	R. F. OUTPUT
2	0 VOLTS & CASE
3	VDD INPUT
4	REFERENCE VOLTAGE
5	OVEN MONITOR
6	+VDC

Note 1: If the specification does not specify parameters for either PIN3 or PIN4 then that respective PIN is NOT internally CONNECTED.

ELECTRICAL SPECIFICATION

Parameter		Min.	Typ.	Max.	Unit.	Test Condition
Output Frequency		—	10	—	MHz	Available frequency range is from 5Hz to 40MHz. Standard frequencies are 10, 12.8, 13, 15.36, 19.2, 20, 25, 38.88MHz.
Waveform		—	Rectangular	—	—	Sine wave output is not available. Consult factory for more information.
Level		—	LV TTL	—	—	
“1” Level		2.4	—	—	V	
“0” Level		—	—	0.4		
Load		—	15	—	pF	
Duty Cycle		45	50	55	%	@+1.4V
Spurious		—	—	-60	dBc	
Frequency Stability	Ambient	-10	—	+10	ppb	-30 ~ +70°C, referenced to +25°C Refer to Freq. Stability Vs Temp. Range table.
	Aging	—	—	—	—	
	Daily	-0.5	—	+0.5	ppb	after 30 days
	Yearly	-50	—	+50	ppb	
	10 years	-0.3	—	+0.3	ppm	
	Voltage	-5.0	—	+5.0	ppb	±5% Change
	Warm-up	-10	—	+10	ppb	In 10 minutes @ +25°C, referenced to 1 hour.
Phase Noise @ 20MHz		—	—	-120	dBc/Hz	@10 Hz
		—	—	-135		@100 Hz
		—	—	-145		@1 kHz
		—	—	-150		@10 kHz

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Parameter		Min.	Typ.	Max.	Unit.	Test Condition
Electrical Frequency Adjustment	Range	—	—	-0.5	ppm	VCO@ 0V
		+0.5	—	—		VCO@3.3V
	Control	0	1.65	3..3	V	
	Slope	—	Positive	—		
	Input impedance	100	—	—	kΩ	
Input Power	Voltage	3.135	3.3	3.465	V	5.0V input voltage is available. Consult factory for control voltage and output level.
	Current	—	—	1000	mA	@ turn on
	Steady state	—	—	1.3	W	@ +25°C

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb	±3	±5	±10
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.