

OCXO

6.5 TOC2522

25.4 x 22.1 mm Oven Controlled
Crystal Oscillator

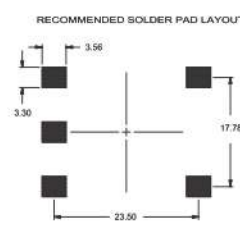
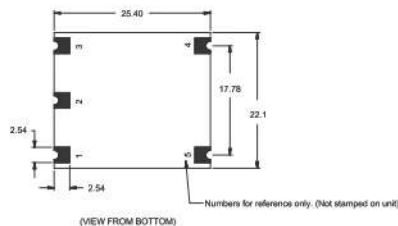
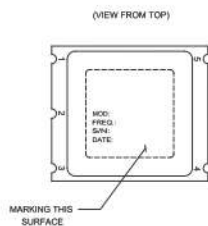
FEATURES

- Dimension 25.4 x 22.1 x 11.0 mm typical
- SC Cut Crystal

DIMENSIONS

TYPICAL APPLICATION

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



PIN CONNECTIONS	
PIN	FUNCTION
1	VCO INPUT
2	REFERENCE VOLTAGE
3	NOT CONNECTED
4	R. F. OUTPUT
5	0 VOLTS & CASE

Note 1: If the specification does not specify parameters for either PIN1 or PIN2 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 5MHZ to 40MHZ. Standard frequencies are 10, 12.8, 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	2.4	3.3	—	V	@+1.4V
	"0" Level	—	—	0.4		
	Load	—	15	—	pF	
	Duty Cycle	45	50	55	%	
	Spurious	—	—	-60	dBc	
Frequency Stability	Ambient	-10	—	+10	ppb	0 ~ +70°C, referenced to +25°C Refer to Freq. Stability Vs Temp. Range table.
	Aging	-0.5	—	+0.5	ppb	Per day, at time of shipment.
	Daily	-0.5	—	+0.5	ppb	after 30 days
	Yearly	-50	—	+50	ppb	
	10 years	-0.4	—	+0.4	ppm	
	Voltage	-0.5	—	+0.5	ppb	±5% Change
	Warm-up	-10	—	+10	ppb	In 2 minutes @ +25°C, referenced to 1 hour.
Phase Noise @ 20MHZ		—	—	-115	dBc/Hz	@10 Hz
		—	—	-130		@100 Hz
		—	—	-140		@1k Hz
		—	—	-150		@10k Hz

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Parameter		Min.	Typ.	Max.	Unit.	Test Condition
Electrical Frequency Adjustment	Range	—	—	-0.5	ppm	VCO@ 0V
		0.5	—	—		VCO@2.8V
	Control	0	1.4	2.8	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	—	—	1.2	W	@ +25°C
Reference Voltage	Voltage	2.7	2.8	2.9	V	
	Load	9	—	—	kΩ	

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb	±5	±10	±20
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.