

OCXO

6.1 TOC1409

14.5 x 9.6 mm Oven Controlled
Crystal Oscillator Features

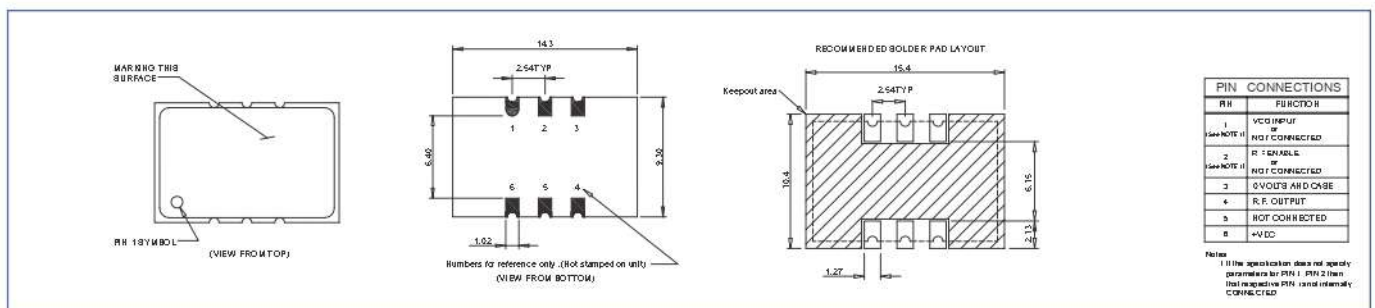
FEATURES

- Dimension 14.5 * 9.6 * 6.5mm typical
- 6-pin SMD Package
- Frequency Range, 10 MHz to 40 MHz
- ± 30 ppb stability over -40 ~ +85°C
- Stratum 3 (Overall ± 4.6 ppm including 20 years aging)

TYPICAL APPLICATION

- SDH/SONET, Telecommunication base station
- Test and measurement equipment
- Synthesizer, Digital switch, Reference Timing Circuit
- Packet Timing Protocol (e.g. 1588)

DIMENSIONS



ELECTRICAL SPECIFICATION

Parameter		Min.	Typ.	Max.	Unit.	Test Condition
Output	Frequency	—	20	—	MHz	Available frequency range is from 5MHz to 40MHz. Standard frequencies are 10, 12.8, 19.2, 20, 26 and 38.88MHz.
	Waveform	—	Rectangular	—	—	Please contact us for detail information.
	Level	—	HCMOS	—	—	
	"1" Level	2.4	—	—	V	
	"0" Level	—	—	0.4		
	Load	—	15	—	pF	
	Duty Cycle	45	50	55	%	@+1.65V
	Spurious	—	—	-60	dBc	
Frequency Stability	Ambient	-30	—	+30	ppb	-40 ~ +85°C, referenced to +25°C Refer to Freq. Stability Vs Temp. Range table.
	Aging	—	—	—	—	Per day, at time of shipment.
	Daily	-2.0	—	+2.0	ppb	after 30 days
	Yearly	-0.4	—	+0.4	ppm	
	10 years	-2.0	—	+2.0		
	Voltage	-5	—	+5	ppb	±5% Change
	Load	-10	—	+10	ppb	±10% Change
	Warm-up	-0.1	—	+0.1	ppm	In 5 minutes @ +25°C, referenced to 1 hour.
Phase Noise @20 MHz		—	-98	-92	dBc/Hz	@10 Hz
		—	-126	-120		@100 Hz
		—	-145	-140		@1 kHz
		—	-152	-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@ 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	—	500	600	mA	@ turn on
	Steady state	—	0.5	0.6	W	@ +25°C

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb	±10	±20	±30	±50
-20 ~ +70	△	○	○	○
-40 ~ +85	×	△	○	○

*o: 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.