

Series OSD
25.4 x 22.1 mm Oven Controlled Crystal Oscillator

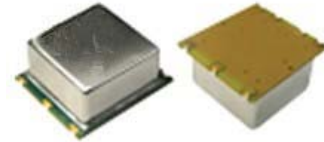


FEATURE

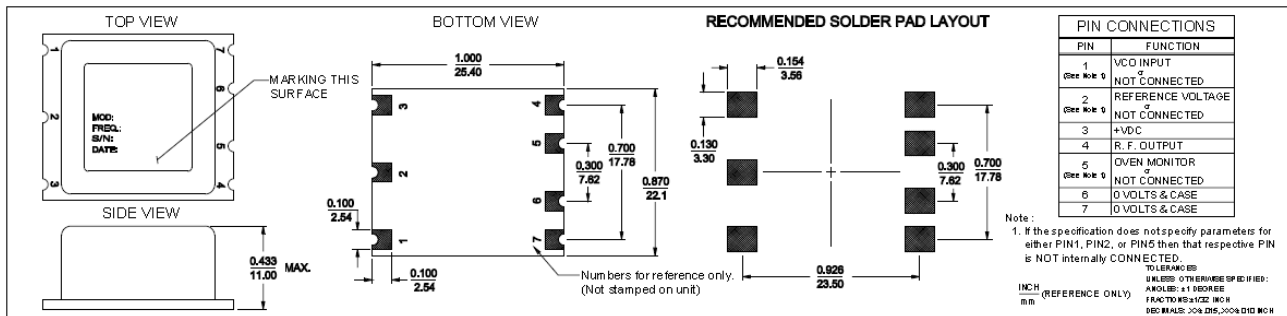
- Dimension 25.4 x 22.1 x 11.0 mm typical.
- SC or AT Cut Crystal.

TYPICAL APPLICATION

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



DIMENSION



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ELECTRICAL SPECIFICATION

Parameter	Min.	Typ.	Max.	Unit	Test Condition & Noted
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 available. Consult factory for more information
Level		HCOMS			
"1" Level	2.8			V	
"0" Level			0.4		
Load		15		pF	
Duty cycle	45	50	55	%	@+1.4 V
Spurions			-60	dBc	
Frequency Stability					
Ambient	-10		+10	ppm	-0°C to +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	-5.0		5.0	ppb	after 30days
Yearly	-50		50	ppb	
10 years	-0.3		0.3	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			-120.0	dBc/HZ	@ 10 Hz
			-135.0		@ 100 Hz
			-145.0		@ 1kHz
			-150.0		@ 10 kHz
Electrical Frequency Adjustment					
Range			-0.5	ppm	VCO @ 0 V
	0.5				VCO @ +2.8V
Control	0	1.4	2.8	V	
Slope		Positive			
Input impedance	100			KΩ	

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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	
Steady state			0.8	W	
Reference Voltage					
Voltage	2.7	2.8	2.9	V	
Load	9			KΩ	
Temperature Stability	-0.1		+0.1	V	Over temperature range

Packing: 40 pcs/Box,5 boxes/Carton,200 pcs/Carton

FREQ. STABILITY vs TEMP. RANGR

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

O: Available △:Conditional X: Not available