

FCom OCXO

Series FOC-1D

Standard OCXO 14 Pin DIP



Feature

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

Application

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

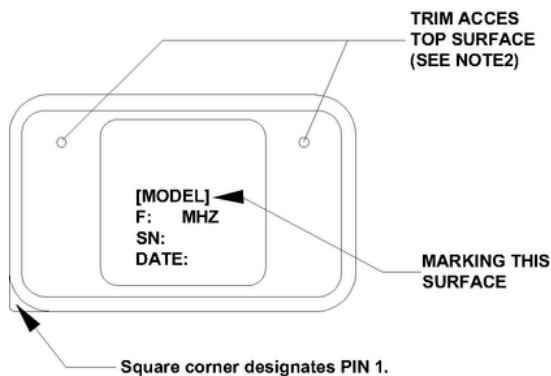
ELECTRICAL SPECIFICATIONS

Parameters		Symbol	Min.	Typ.	Max.	Units	Notes
Output Frequency		F	10		40	MHz	
Waveform		-	Rectangular			-	Sine wave output is available.
"1" Level		VOH	2.4	-	-	V	
"0" Level		VOL	-	-	0.5	V	
Load		CL	-	15	-	pF	
Duty cycle		TH/T	45	50	55	%	@ 2.0 V
Spurious		-	-	-	-60	dBc	
Frequency Stability	Ambient	-	-0.1	-	+0.1	ppm	-30°C to +70°C, referenced to +25°C
	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	ppm	
	Voltage		-50	-	+50	ppb	$\pm 5\%$ Change
	Warm-up		-0.1	-	+0.1	ppm	In 2 minutes @ +25°C, referenced to 1 hour
Phase Noise (Max.)	10Hz	PN	-	-	-105	dBc/Hz	
	100Hz		-	-	-130		
	1kHz		-	-	-140		
	10kHz		-	-	-150		
Electrical Frequency Adjustment	Range	-	-	-	-5.0	ppm	VCO@ 0V
			5.0	-	-		VCO@ +5.0V
	Control		0	2.5	5.0	V	
	Slope		-	Positive	-		
	VCO Input impedance		100	-	-	K Ω	
Input Power	Voltage	Vcc	4.75	5.0	5.25	V	3.3V input voltage is available.
	Current	Icc	-	-	400	mA	@ turn on
	Steady state	-	-	-	0.8	W	@ +25°C

Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

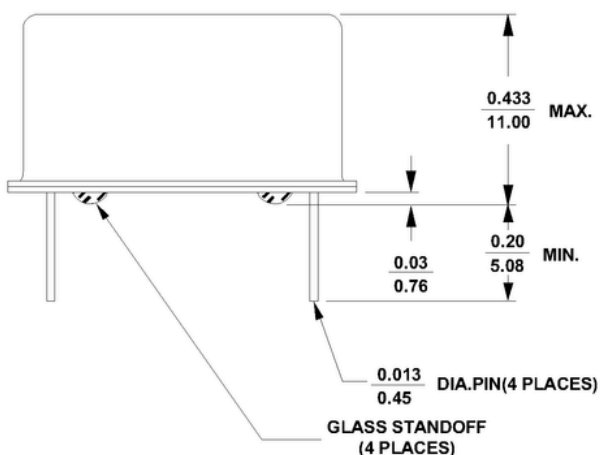
DIMENSION(mm)

TOP VIEW

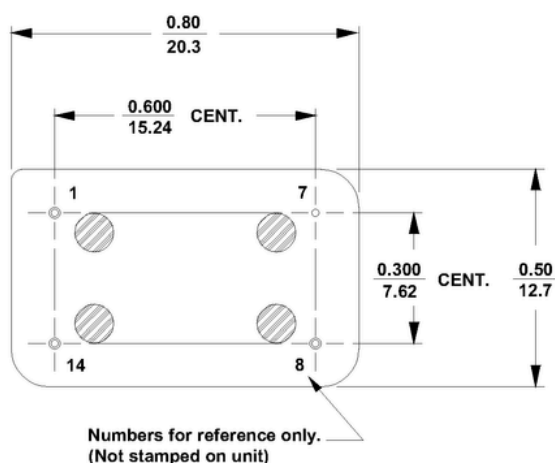


TOLERANCES
UNLESS OTHERWISE SPECIFIED:
ANGLES:±1 DEGREE
FRACTIONS:±1/32 INCH INCH (REFERENCE ONLY)
DECIMALS:XX±015,.XXX±.010 INCH mm

SIDE VIEW



BOTTOM VIEW



PIN CONNECTIONS

PIN	FUNCTION
1 (See Note 1)	VCO INPUT OR NOT CONNECTED
7	0 VOLTS & CASE
8	R.F.OUTPUT
14	+VDC

Notes:

- 1.If the specification does not specify parameters for PIN 1 then PIN 1 is NOT internally CONNECTED.
- 2.If the specification does not specify parameters for "MECHANICAL FREQUENC ADJUSTMENT" then there is no Trim Access

FREQ. STABILITY vs. TEMP. RANGE

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

○: Available △: Conditional ×: Not available
Inclusive of calibration @25°C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration.