

FCom OCXO

Series FOC-3D

Standard OCXO 25x25 5 Pin



Feature

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

Application

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

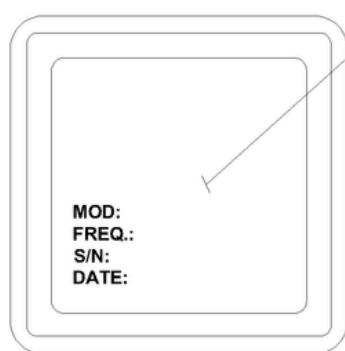
ELECTRICAL SPECIFICATIONS

Parameters		Symbol	Min.	Typ.	Max.	Units	Notes
Output Frequency		F	5	10	40	MHz	
Waveform		-	Rectangular			-	Sine wave output is available.
Level		-	TTL			-	
"1" Level		-	2.4	-	-	V	
"0" Level		-	-	-	0.4	V	
Load		CL	-	15	-	pF	
Duty cycle		TH/T	45	50	55	%	@ +1.4 V
Spurious		-	-	-	-60	dBc	
Frequency Stability	Ambient	-	-10	-	+10	ppb	-30°C to +70°C, referenced to +25°C
	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	ppm	In 10 minutes @ +25°C, referenced to 1 hour
Phase Noise (Max.)	10Hz	PN	-	-	-120	dBc/Hz	
	100Hz		-	-	-135		
	1kHz		-	-	-145		
	10kHz		-	-	-150		
Electrical Frequency Adjustment	Range	-	-	-	-0.5	ppm	VCO @ 0 V
			0.5	-	-		VCO @ +3.3 V
	Control		0	1.65	3.3	V	
	Slope		-	Positive	-		
	VCO Input impedance		100	-	-	KΩ	
Input Power	Voltage	Vcc	3.135	3.3	3.465	V	5.0V input voltage is available
	Current	Icc	-	-	1000	mA	@ turn on
	Steady state	-	-	-	1.3	W	@ +25°C

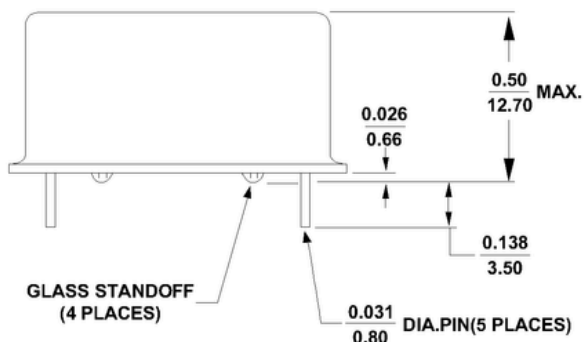
Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

DIMENSION(mm)

TOP VIEW



SIDE VIEW



TOLERANCES

UNLESS OTHERWISE SPECIFIED:

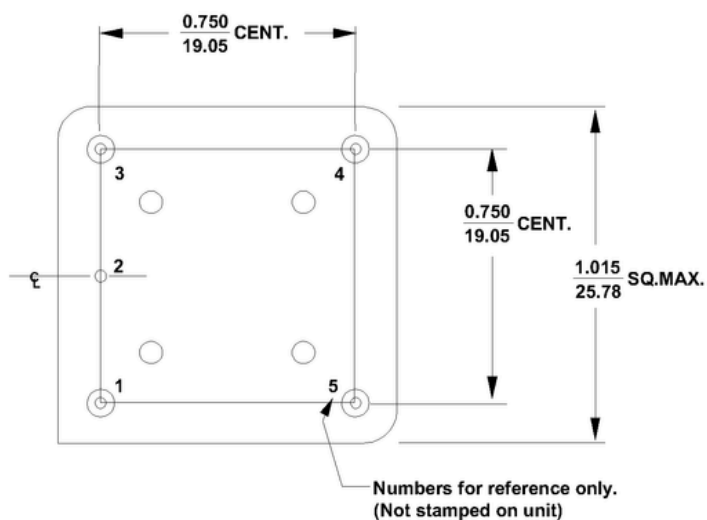
ANGLES: ± 1 DEGREE

FRACTIONS: $\pm 1/32$ INCH

DECIMALS: $.XX \pm 0.015$, $.XXX \pm 0.010$ INCH

$\frac{\text{INCH}}{\text{mm}}$ (REFERENCE ONLY)

BOTTOM VIEW



PIN CONNECTIONS

PIN	FUNCTION
1	R.F. OUTPUT
2	0 VOLTS & CASE
3 (See Note 1)	VCO INPUT or NOT CONNECTED
4	REFERENCE VOLTAGE or NOT CONNECTED or OVEN MONITOR
5	+VDC

Note:

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

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb	± 3	± 5	± 10
@ 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.