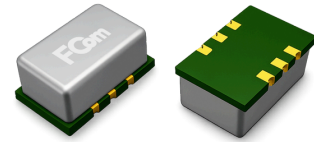


FCom OCXO

Series FOC-5S

Standard OCXO 14x9 6-SMD



Feature

- Dimension 14.7 x 9.6 x 8.2 mm Typical
- 6-Pin Hermetic SMD Package
- ± 30 ppb stability over -40 to 85°C
- Stratum 3 (Overall ± 4.6 ppm including 20 years aging.)

Application

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

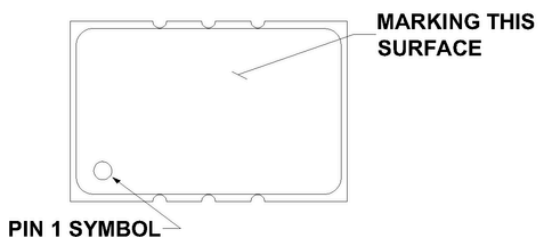
ELECTRICAL SPECIFICATIONS

Parameters		Symbol	Min.	Typ.	Max.	Units	Notes
Output Frequency		F	10	20	40	MHz	
Waveform		-	Rectangular			-	
Level		-	HCMOS			-	
"1" Level		-	2.4	-	-	V	
"0" Level		-	-	-	0.4	V	
Load		CL	-	15	-	pF	
Duty cycle		TH/T	45	50	55	%	@+1.65 V
Spurious		-	-	-	-60	dBc	
Frequency Stability	Ambient	-	-30	-	+30	ppb	-40°C to +85°C, referenced to +25°C
	Aging		-	-	-		
	Daily		-2.0	-	+2.0	ppb	after 30 days
	Yearly		-0.4	-	+0.4	ppm	
	10 years		-2.0	-	+2.0	ppm	
	Voltage		-5	-	+5	ppb	$\pm 5\%$ Change
	Load		-10	-	+10	ppb	$\pm 10\%$ Change
	Warm-up		-0.1	-	+0.1	ppm	In 5 minutes @ +25°C, referenced to 1 hour
Phase Noise @ 20 MHz	10Hz	PN	-	-98	-92	dBc/Hz	
	100Hz		-	-126	-120		
	1kHz		-	-145	-140		
	10kHz		-	-152	-150		
Electrical Frequency Adjustment	Range	-	-	-	-5.0	ppm	VCO @ 0 V
			5.0	-	-		VCO @ +3.3 V
	Control		0	1.65	3.3	V	
	Slope		-	Positive	-		
	VCO Input impedance		100	-	-	K Ω	
Input Power	Voltage	Vcc	3.135	3.3	3.465	V	5.0V input voltage is available
	Current	Icc	-	500	600	mA	@ turn on
	Steady state	-	-	0.5	0.6	W	@ +25°C

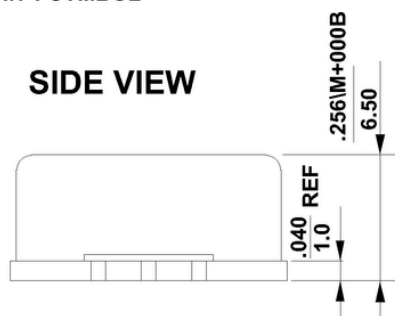
Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

DIMENSION(mm)

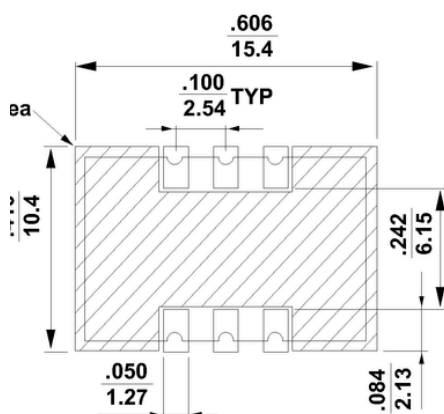
TOP VIEW



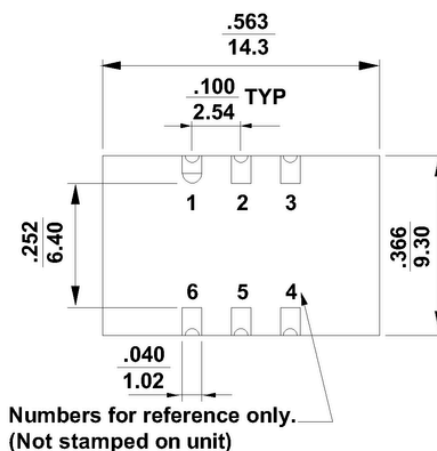
SIDE VIEW



Solder Pad Layout(mm)



BOTTOM VIEW



PIN CONNECTIONS

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

1.If the specification does not specify parameters for either PIN 1,PIN 2 then that respective PIN is NOT internally CONNECTED.

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

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb	± 10	± 20	± 30	± 50
@-20~70°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.