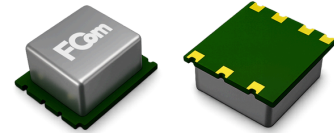


FCom OCXO

Series FOC-6S

Standard OCXO 25x22 7-SMD



Feature

- Dimension 25.4 x 22.1 x 11.0 mm Typical
- SC Cut Crystal

Application

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

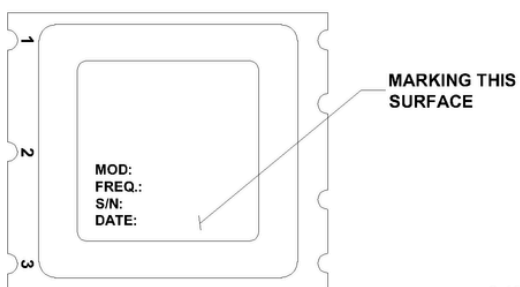
ELECTRICAL SPECIFICATIONS

Parameters		Symbol	Min.	Typ.	Max.	Units	Notes
Output Frequency		F	5	10	40	MHz	
Waveform		-	Rectangular			-	
Level		-	HCMOS			-	
"1" Level		-	2.4	3.3	-	V	
"0" Level		-	-	-	0.4	V	
Load		CL	-	15	-	pF	
Duty cycle		TH/T	45	50	55	%	@+1.4V
Spurious		-	-	-	-60	dBc	
Frequency Stability	Ambient	-	-10	-	+10	ppb	0°C to +70°C, referenced to +25°C
	Aging		-0.5	-	+0.5	ppb	Per day, at time of shipment
	Daily		-0.5	-	+0.5	ppb	after 30 days
	Yearly		-50	-	+50	ppb	
	10 years		-0.4	-	+0.4	ppm	
	Voltage		-0.5	-	+0.5	ppb	±5% Change
	Warm-up		-10	-	+10	ppm	In 2 minutes @ +25°C, referenced to 1 hour
Phase Noise @ 20 MHz	10Hz	PN	-	-	-115	dBc/Hz	
	100Hz		-	-	-130		
	1kHz		-	-	-140		
	10kHz		-	-	-150		
Electrical Frequency Adjustment	Range	-	-	-	-0.5	ppm	VCO @ 0 V
			0.5	-	-		VCO @ +3.3 V
	Control		0	1.4	2.8	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	-	-	-	1.2	W	@ +25°C
Reference Voltage	Voltage	-	2.7	2.8	2.9	V	
	Load	-	9	-	-	KΩ	

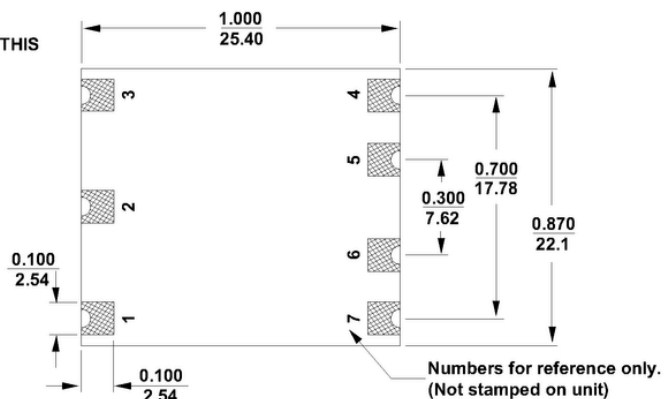
Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

DIMENSION(mm)

TOP VIEW



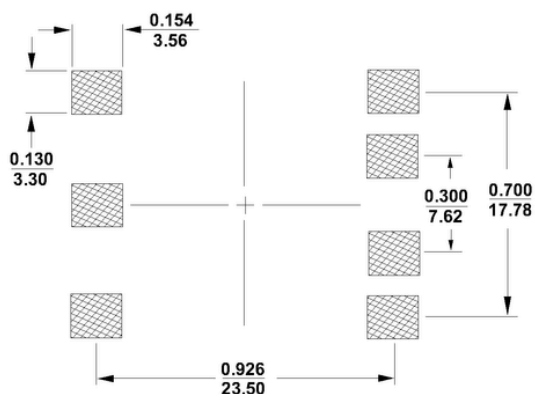
BOTTOM VIEW



SIDE VIEW



RECOMMENDED SOLDER PAD LAYOUT



PIN CONNECTIONS

PIN	FUNCTION
1 (See Note 1)	VCO INPUT or NOT CONNECTED
2 (See Note 1)	REFERENCE VOLTAGE or NOT CONNECTED
3	+VDC
4	R.F. OUTPUT
5	OVEN MONITOR or NOT CONNECTION
6	NOT CONNECTION
7	0 VOLTS AND CASE

FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppb	± 5	± 10	± 20
@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.