

OCXO, Series

25.4x25.4 mm Oven Controlled Crystal Oscillator

Feature

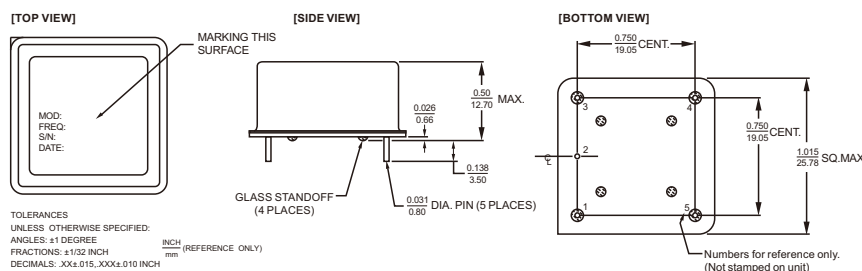
- Typical 25.4 x25.4 mm.
- Low Phase Noise, Low G-Sensitivity
- Tight Frequency Stability
- Low Power Consumption, Fast Warm-up Time
- Electrical Frequency Tuning Input
- Reference Voltage Output



Electrical Specifications

Parameter		12V			5.0V			Unit
		Min.	Type	Max.	Min.	Type	Max.	
OUTPUT (PIN = “R.F. OUTPUT”)								
Frequency			10			100		MHz
Initial Accuracy		-0.1		+0.1	-0.3		+0.3	ppm
Waveform:		Sine Wave			Rectangular			
Frequency stability								
Frequency stability	Ambient(-20~+70°C /-40~+85°C)	± 5, ±10, ±20, ±30, ±50, ±100			± 20, ±50, ±100			ppb
	Daily	-0.5		+0.5	-5		+5	ppb
	Yearly	-50		+50	-500		+500	ppb
	10 Years	-0.3		+0.3	-2		+2	ppm
	Voltage(±5% change)	-1.0		+1.0	-5		+5	ppb
	Short term			0.002			0.05	ppb/s
	Load(±5% change)	-1.0		+1.0	-5		+5	ppb
	Warm-up	-50		+50	-50		+50	ppb
G-Sensitivity(each axis)				-			1	Ppb/g
Phase Noise	10Hz		-140	-142		-97	-100	dBc/Hz
	100Hz		-155	-155		-130	-135	
	1KHz		-165	-165		-160	-162	
	10KHz		-170	-170		-173	-170	
	100KHz		-170	-170		-175	-172	
	1MHz		-170	-170		-178	-175	
ELECTRICAL FREQUENCY ADJUSTMENT (PIN = “VCO INPUT”)								
Tuning Range	VCO @ Min. Voltage	± 0.4			± 3			ppm
Control Voltage	Ordering Information	0.5	5.0	+9.5	0	5.0	+10.0	V
INPUT POWER (PIN = “+VDC”)								
Voltage		+11.4	+12	+12.6	+11.4	+12	+12.6	V
Current				500			380	mA
Steady State				2.0			2.0	W
REFERENCE VOLTAGE (PIN = "REFERENCE VOLTAGE")								
Voltage		+9.25	+9.5	+9.75	+9.5	+10	+10.5	V
Storage Temperature		-55		+125	-55		+125	°C

Dimension(mm)



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

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