

OCXO, Series

36.3 x27.2mm Double Oven Controlled Crystal Oscillator

Feature

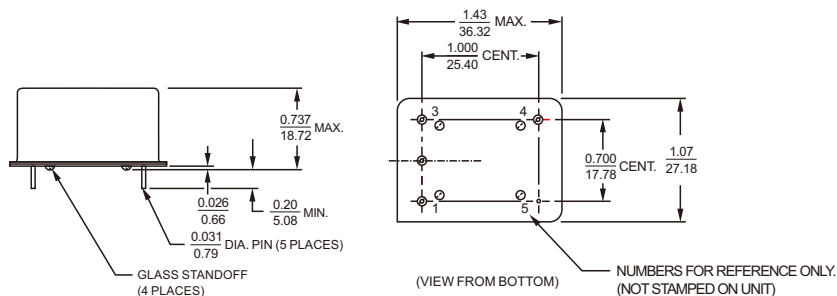
- Typical 36.3 x27.2 x 18.7mm.
- Hermetically Sealed Package
- Low power consumption and high reliability



Electrical Specifications

Parameter		3.3V			5.0V			Unit
		Min.	Type	Max.	Min.	Type	Max.	
OUTPUT (PIN = "R.F. OUTPUT")								
Frequency			10			10		MHz
Initial Accuracy		-0.1		+0.1	-0.1		+0.1	ppm
Output Level:	Output High	2.4			4.4			V
	Output Low			0.3			0.3	V
Waveform:		Rectangular			Rectangular			
Frequency stability								
Frequency stability	Ambient (0~+70°C /-30~+70°C)	±0.2, ±0.5			±0.2, ±0.5			ppb
	Daily	±0.1, ±0.3			±0.1, ±0.3			ppb
	Yearly	±20, ±50			±20, ±50			ppb
	10 Years	±0.1, ±0.2			±0.1, ±0.2			ppm
	Voltage(±5% change)	-0.2		+0.2	-0.2		+0.2	ppb
	Short term			0.007			0.007	ppb/s
	Load(±5% change)	-0.2		+0.2	-0.2		+0.2	ppb
	Warm-up	-20		+20	-20		+20	ppb
Phase Noise	10Hz			-120			-120	dBc/Hz
	100Hz			-138			-138	
	1KHz			-148			-148	
	10KHz			-155			-155	
	100KHz			-158			-158	
ELECTRICAL FREQUENCY ADJUSTMENT (PIN = "VCO INPUT")								
Tuning Range	VCO @ Min. Voltage	-0.8		-0.35	-0.8		-0.35	ppm
	VCO @ Max. Voltage	+0.35		+0.8	+0.35		+0.8	ppm
Control Voltage	Ordering Information	0	+1.4	+2.8	0	+1.4	+2.8	V
INPUT POWER (PIN = "+VDC")								
Voltage		+3.135	+3.3	+3.465	+4.75	+5.0	+5.25	V
Current				2.5			1.75	A
Steady State				2.5			2.5	W
REFERENCE VOLTAGE (PIN = "REFERENCE VOLTAGE")								
Voltage		+2.66	+2.8	+2.94	+3.8	+4.0	+4.2	V
Storage Temperature		-40		+85	-40		+85	°C

Dimension(mm)



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

Note 1. If the specification does not specify parameters for either PIN1 or PIN2 then that respective PIN is NOT internally CONNECTED.