OCXO 131 Series

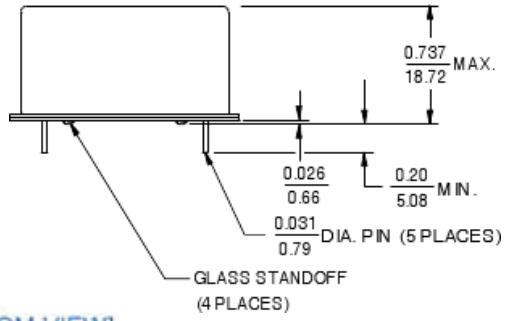
Features:

- 36.3 x 27.2 x 10.0 ~ 18.8 mm.
- SC-Cut Crystal
- Low Phase Noise
- CMOS or Sine Wave output
- Fast Warm-up

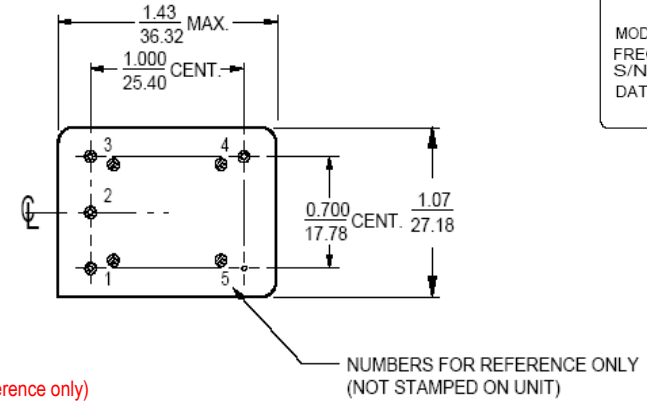
OCXO	Package (mm)	Supply Voltage (V)	Pulling Range	Freq. Stability (ppb)	Temp. Range (°C)	Output Logic and Symmetry		Pin Out	Lead Free	Freq. (MHz)
131	L: 36.3	3.3	Not Connected	± 1	0~+50	Output	Symmetry	Refer To	RoHS	1
Series	W: 27.2 H: 10~19	5.0 12.0	or >10 Year Adjustment	± 3 ± 5 ± 10 ± 20	0~+70 -30~+70 -40~+85	CMOS or Sine Wave	50±10% or 50±5%	OUTLINE DRAWING	Compliant Standard	to 150

Outline Drawing

[TOP VIEW]



[BOTTOM VIEW]



INCH
mm (Reference only)

MARKING

Freq. Stability vs. TEMP. Range

ppb / Temp. (°C)	±1	±3	±5	±10
0 to +50	O	O	O	O
0 to +70	△	O	O	O
-30 to +70	△	△	△	O
-40 to +85	X	△	△	O

O = Standard △ = Available (case by case) X = Not available

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	0 VOLTS & CASE

Note1: If the specification does not specify parameters for either PIN1 or PIN2 then that respective PIN is not internally CONNECTED.

OCXO 131 Series

Electrical Specification*

	Min.	Nominal	Max.	Note	Unit
Output					
Frequency		10.00			MHz
Wave Form		Sine Wave			
Level	6.0	8.0	10.0		dBm
Load	47.5	50.0	52.5		Ω
Harmonics			-30		dBc
Spurious			-60		
Frequency Stability					
Ambient			±10	Referenced to +25ºC	ppb
Operating Temperature	-30		+70		ºC
Aging					
At time of shipment			±0.5		ppb
After indefinite storage					
Daily			±0.5	After 30 days	ppb
Yearly			±100		
10 Years			±300		
Voltage			±10	VDC ±5% change	
Warm-up			±20	In 5 minutes @+25ºC (Reference to 4 hours)	
Phase Noise					
@ 10 Hz			-90		dBc
@ 100 Hz			-120		
@ 1 kHz			-140		
@ 10 kHz			-148		
@ 100 kHz			-150		
Electrical Frequency Adjustment **					
Range	0.4		0.9	Referenced from Nominal Frequency	±ppm
Control	0.0		5.0		V
Slope		Positive			
Center	2	2.5	3	Control Voltage at which nominal frequency occurs at time of shipment	V
Input Impedance	100				kΩ
Input Power					
Voltage	11.4	12.0	12.6		V
Current					
@ turn on			350		mA
Steady state @25ºC			1.5		W
Reference Voltage					
Voltage	7.6	8.0	8.4		V
Load	9.0		∞		kΩ
Temperature Stability			±0.015		V

* 131-1000 model specifications provided as an example. Custom specifications available.

** The electronic frequency adjustment range is sufficient for the life of the oscillator.