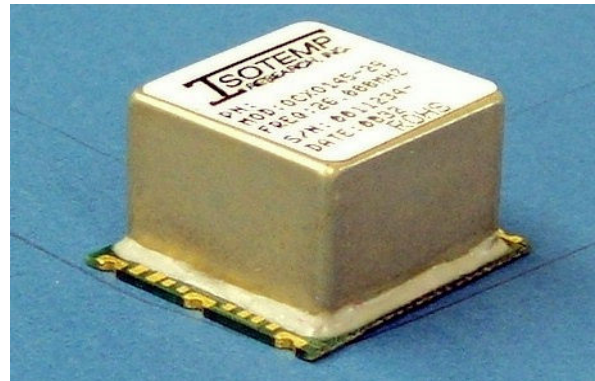


OCXO 145 Series

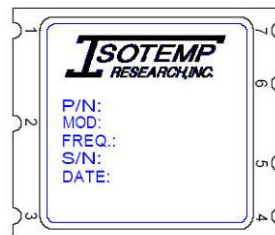
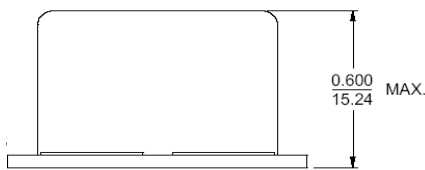
Features:

- 25.4 x 22.1 x 10.2 ~ 15.3 mm.
- SC-Cut Crystal
- Low Phase Noise
- CMOS or Sine Wave output
- Fast Warm-up
- Low Cost AT-Cut Crystal Version Available*



OCXO Series	Package (mm)	Supply Voltage (V)	Pulling Range	Freq. Stability (ppb)	Temp. Range (°C)	Output Logic and Symmetry		Pin Out	Lead Free	Freq. (MHz)
145 Series	L: 25.4 W: 22.1 H: 10.2~15.3	3.3 5.0 12.0	Not Connected or >10 Year Adjustment	± 3 ± 5 ± 10 ± 20	0~+50 0~+70 -30~+70 -40~+85	Output	Symmetry	Refer To	RoHS	5 to 100
						CMOS	50±10%	OUTLINE	Compliant	
						or Sine Wave	or 50±5%	DRAWING	Standard	

Outline Drawing [TOP VIEW]

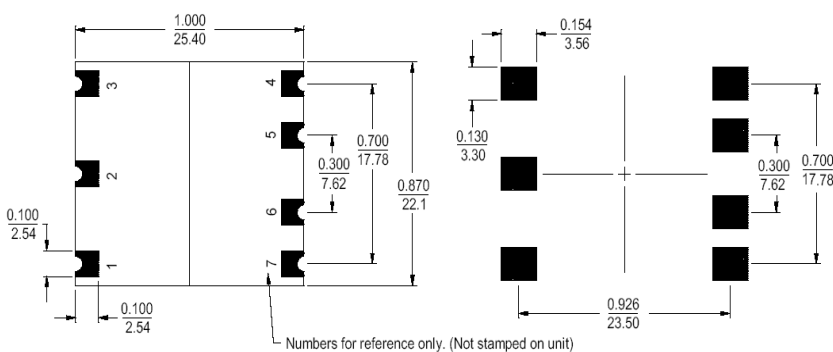


Freq. Stability vs. TEMP. Range

Temp. (°C)	ppb	±3	±5	±10	±20
0 to +50	○	○	○	○	○
0 to +70	△	○	○	○	○
-30 to +70	△	△	○	○	○
-40 to +85	X	△	△	△	○

○ = Standard △ = Available (case by case) X = Not

[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	+VDC
4	R.F. OUTPUT
5	OVEN MONITOR or NOT CONNECTED
6	0 VOLTS & CASE
7	0 VOLTS & CASE

Note1: If the specification does not specify parameters for either PIN 1, PIN 2 or PIN 5 then that respective PIN is not internally CONNECTED.

INCH
mm (Reference only)

*See 147 Series available for stabilities

Contact info@isotemp.com for special request

OCXO 145 Series

Electrical Specification*

	Min.	Nominal	Max.	Note	Unit
Output					
Frequency		10.00			MHz
Wave Form		CMOS			
Level					
"1" Level	4.5				V
"0" Level			0.5		
Load		15			pF
Duty Cycle	45		55		%
Spurious			-60		dBc
Frequency Stability					
Ambient			±10	Referenced to +25°C	ppb
Operating Temperature	0		+70		°C
Aging					
At time of shipment			±0.5		ppb
After indefinite storage					
Daily			±0.5	After 30 days	ppb
Yearly			±100		
10 Years			±400		
Voltage			±2	VDC ±5% change	ppb
Short term			±0.05	Second root Allan variance	
Warm-up			±50	In 5 minutes @+25°C (Reference to 4 hours)	
Phase Noise					dBc
@ 10 Hz			-120		
@ 100 Hz			-135		
@ 1 kHz			-140		
@ > 10 kHz			-150		
Electrical Frequency Adjustment **					
Range	±0.8		±2.4	Referenced from Nominal Frequency	±ppm
Control	0.0		4.0		V
Slope		Positive			
Center	1.4	2.0	2.6	Control Voltage at which nominal frequency occurs at time of shipment	V
Linearity			±10		%
Input Impedance	100				kΩ
Input Power					
Voltage	4.75	5.0	5.25		V
Current					
@ turn on			600		mA
Steady state @25°C			1.2		W

* 145-1000 model specifications provided as an example. Custom specifications available.

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