查询"OX125"供应函

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Stratum 3E HCMOS Oscillator OX125 TiMax Series



VCOCXO

The Connor-Winfield OX125 TiMax Series is a 5V Voltage Controlled Oven Controlled Crystal Oscillator (VCOCXO) with an HCMOS output. The OX125 Series is designed for Stratum 3E applications requiring low jitter and tight frequency stability.

Features:

Designed to meet Stratum 3E requirements Variable frequency (VCOCXO) Frequency Stability ±10ppb 5.0V Operation **HCMOS** Output

Absolute Maximum Ratings						
Parameter	Minimum	Nominal	Maximum	Units	Notes	
Storage Temperature	-40	-	85	°C		
Supply Voltage (Vcc)	-0.5	-	7	Vdc		

Operating Specifications						
Parameter	Minimum	Nominal	Maximum	Units	Notes	
Center Frequency (Fo)	-	10-12.8	-	MHz	1	
Frequency Calibration (Vc=2.5 Vc	tc) -0.2	-	0.2	ppm	2	
Frequency Stability	-10	-	10	ppb	3	
Aging: Daily	-1	-	1	ppb/day	4	
Aging: First Year	-30	-	30	ppb		
Aging: Short Term (1 Sec)	-	5.00E-11	-	RMS	5	
Aging: Long Term (20 years)	-	-	300	ppb		
Operating Temp Range	0	-	70	°C		
Supply Voltage (Vcc)	4.75	5.00	5.25	Vdc		
Voltage Stability (±1%)	-0.5	-	0.5	ppb	6	
Load Stability ±20%)	-0.5	-	0.5	ppb	7	
Power Consumption: Turn On Steady-State	-	-	2.75 1.5	W	8	
Start-Up Time	-	-	500	mS	9	
Warm Up	-100	-	100	ppb	10	
2G Tip-over	-	5	-	ppb/G		
TDEV at 300 seconds TDEV at 40 seconds	-	-	5 1	nS	11	

Input Characteristics						
Parameter	Minimum	Nominal	Maximum	Units	Notes	
Control Voltage (Pin 1) Vc	0.5	2.5	4.5	Vdc		
Deviation @ 25°C referenced to Fo) ±0.3	-	±1.0	ppm	9	
Input Impedance (Pin 1)	50k	-	-	Ohm		



Bulletin	Cx148
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Notes:

1. Labels will include the calibration frequency at the time of ship.

2. Initial calibration @ 25°C. Vc=2.5Vdc

3. Frequency vs temperature stability

- 4. After ten days of continuous operation Allen Variance: 1 second, 100 average 5.
- 6. Frequency vs change in supply voltage

7. Frequency vs change in load

Vcc = 5.0Vdc8.

- 9. From Vcc=90% of final value. No more than 16 transitions at start-up before oscillator has started.
- 10. Measured @ 0°C, within 5 minutes, referenced one hour after turn-on.

11. At time of delivery. 12. HCMOS load.

13. For a given off time, the time required to meet daily aging, short-term stability and TDEV requirements.

Ordering Information

OX125 - 010.0 MHz ocxo SERIES



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	HCMOS Outp				
Parameter	Minimum	Nominal	Maximum	Units	Notes
Load	12	15	18	pf	12
Voltage: High (Voh) Low (Vol)	Vcc-0.2V	-	0.2	Vdc	
Duty Cycle at 50% of Vcc	45	50	55	%	
Rise / Fall Time 10% to 90%	-	-	5	nS	
Spurious Output	-	-	-80	dBc	
SSB Phase Noise at 1 Hz offset at 10 Hz offset at 100 Hz offiset at 1 kHz offset at 10 kHz offset	-	- - - -	-90 -115 -130 -135 -140	dBc/Hz	
	Restabi	lization Time			
Off Time		estabilization Ti	me		Notes
< 1 Hour < 6 Hours <24 Hours 1 to 16 Days > 16 Days	48	< 2 Hours < 12 Hours < 48 Hours Hours + ¹ ⁄ ₄ Off 1 < 6 Days	「ime		13
		Characteristic			
Package	Metal package:	solder sealed, ç	grounded case,	solder tinned pir	IS.
	Ackage Outline		202F, Method 20 <u>.500</u> 12.700mm MAX <u>.025 ±.006</u> .635mm ±.152 <u>1.070</u> 27.178mm MA	Х (воттом view) 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.810mm MIN 3.810mm MIN 3.810mm MIN 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 0 7 7 00 7.700 17.780mm
Test Diagram			Pi	n Connections	
+4.5Vdc +5Vdc .01uf	3 4 4 2	PROBE FRE coun	α TER 2 9 4 5 Dir	: Control Voltage : No Connect : Supply Voltage : RF Output : Circuit & Packag	ce: ±.005 (.127mm) in Cx14i 2 of 2

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