Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

OCXO2020AW-LN-10MHz-A-V Pã @ĤÚœàããĉ ÁF€T P: ÁUÔÝUÁ

Features and Benefits

Frequency range: 10MHz Supply voltage: 5.0V

Steady Power: 1200mW/Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±10ppb

Aging: ±0.02ppm per year

Operating temperature: -20°C to +70°C

Size: 20.2x20.2x12.6mm

Typical Applications

Cellular Base Stations Instrumentation Microwave Applications Stratum 3E clock systems Radar reference

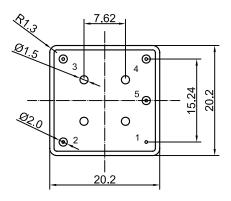
Description

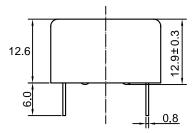
OCXO2020AW-LN-10MHz-A-V offers high frequency stability, low long-term aging, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No:

MD240025-1





Pin Connections

Pin	Signal
1	GND
2	RF Out
3	+V Supply
4	Electrical tuning
5	Reference voltage

Unit in mm

1mm = 0.0394 inches



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Specifications

Oscillator	Sym	Condition	Value			11-2	
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F ₀			10		MHz	
RF Output							
Signal Waveform				Sine	wave		
Level			+7			dBm	
Load				50		ohm	
Harmonics level					-30	dBc	
Sub-Harmonics level				none			
Power Supply							
Supply Voltage	V _{cc}		4.75	5.0	5.25	V	
Warm-up Time	T _{up}	At +25°C to △ f/f=1e-7			180	sec	ref to freq. after 15 min of operation
Daniel Oceania d'an		Steady state, +25°C			1200	mW	·
Power Consumption		Warm-up			3500	mW	
Frequency Adjustment Range		<u>'</u>					
Electronic Frequency Control (EFC)		Compliance with 10 years aging	±0.3			ppm	
EFC voltage	V _c	, ,	0		4.3	V	
Slope	positive		•				
Reference voltage	Vref		4.0	•	4.3	V	
Frequency Stability							
Versus Operating Temperature Range		ref. 25°C, air flow 0.5 m/s max.			±10	ppb	
G-sensitivity		Worst direction,0- 1KHz vibration BW(for 0-2KHz BW consult DEI)		±1.0		ppb/G	
Aging Per Day		After 30 days of			0.2	ppb	
Aging 1 st Year		operation			0.02	ppm	
		@10Hz		-125			
		@100Hz		-145		1	
Phase Noise		@1KHz		-163		dBc/Hz	
		@10KHz		-168		1	
		@100KHz		-170		1	
Environmental Conditions							
Operating temperature range	-20°C to -	+70°C					
Storage temperature range	-60°C to +85°C						
Air flow velocity	0.5 m/s maximum						
Humidity	Hermetically sealed						
Mechanical shock	Per MIL-STD-202,30G half sine pulse,11mS						
Vibration	Per MIL-STD-202, 10G sweep sine 0 to 2000 Hz						
Soldering conditions	Hand solder only, not reflow compatible 260°C 10s (on pins)						
Washing conditions		with water or alcohol-bas					