

Oven Controlled Crystal Oscillator Reference 100 MHz

REF100ECA-O

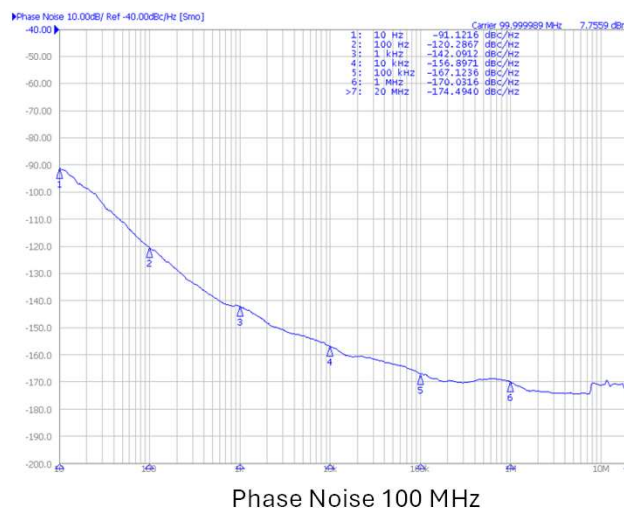
Rev A1

Features

100 MHz OCXO Reference
 Phase Noise -156 dBc/Hz @10 kHz
 ± 50 ppb Frequency Stability
 Power Output + 7.5 dBm
 Single Wide range Supply voltage
 Rugged all Metal Enclosure

Applications

Phase Locked Loop
 Frequency Synthesizers
 Function Generators
 Test and Measurement



Performance Specifications		Min.	Typ.	Max.	Units
Output Frequency			100		MHz
Power Output (Sine)			7.5		dBm
Load Impedance		47.5	50	52.5	Ω
Phase Noise					
	@ 10 Hz offset		-91		dBc/Hz
	@ 100 Hz offset		-120		dBc/Hz
	@ 1 kHz offset		-142		dBc/Hz
	@ 10 kHz offset		-156		dBc/Hz
	@ 100 kHz offset		-167		dBc/Hz
	@ 1 MHz offset		-170		dBc/Hz
Harmonics				-30	dB
Spurious Suppression				-80	dB
Warm Up Time				5	Min
Supply Voltage (Green LED Indicator)		7		18	V
Supply Current (Vcc=10Vdc)				165	mA
Power Dissipation					
	Start Up @25 °C			8	W
	Steady State @25 °C			1.7	W
Operating Temperate		-40		+85	°C
Frequency vs. Temperature				±50	ppb
Aging (Per Day)				± 1	ppb

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The Z-COMM OCXO series of Oven Controlled Crystal Reference Oscillators provide exceptional phase noise and frequency stability performance in a compact, all metal package suitable for lab and system applications where the performance is the must. Its rugged enclosure lends itself to in-field use as well as bench top testing. Internal OCXO has been tested and meets MIL-STD-202G Method 213 test Condition C for Shock , MIL-STD-810G Method 514 Test Procedure I for Random Vibration and MIL-STD-202G Method 204 Test Condition A for Sinusoidal Vibration. Acceleration sensitivity is 1.0 ppb/g typical at 10Mhz output (Vibration profile: 0.001G²/Hz 10Hz to 2kHz).

Physical Dimensions

