



Datasheet: OCXO 50MHz

Part Number: C2525-C50C1-50M000

1 ELECTRICAL SPECIFICATION

PARAMETER		CHARACTERISTIC
Output	Nominal Frequency	50 MHz
	Waveform	Sine wave
	Level	$\geq 8 \text{ dBm} \pm 2\text{dBm}$
	Harmonics	$\leq -30 \text{ dBc}$
	Spurious	$\leq -75 \text{ dBc}$
Frequency Stability	Vs. Temperature	$\pm 0.05 \text{ ppm}$ ($-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$, referred to $+25^{\circ}\text{C}$)
	Vs. Load	$\pm 0.05 \text{ ppm (max) / } 50\Omega \pm 5\%$
	Vs. Supply Changes	$\pm 0.05 \text{ ppm (max) / VDC} \pm 5\%$
	Vs. Ageing Per Year	$\pm 0.1 \text{ ppm}$ (After 30 working days, Typical)
Phase Noise	10Hz	-111dBc / Hz min. -106 dBc/Hz Typical
	100Hz	-131dBc / Hz min. -126dBc/Hz Typical
	1kHz	-151dBc / Hz min. -145dBc/Hz Typical
	10kHz	-152dBc / Hz Typical
	100kHz	-155dBc / Hz Typical
Mechanical Tuning	No	
Electrical Tuning Range	$\geq \pm 0.5\text{ppm}$ ($4\pm 4\text{V}$, positive slope)	
Frequency Control Input Impedance	$\geq 100 \text{ k}\Omega$	
Input Power	Voltage	+12 VDC $\pm 5\%$
	Warm-up Power	$\leq 5 \text{ Watts}$ for 3 minutes
	Total Power Typical	$\leq 2 \text{ Watts}$ at 25°C

2 ENVIRONMENTAL CONDITIONS

Humidity	GJB360A-96, Method 103, Condition A ($+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$; 90%~95%R.H.; non-condensing, 96 hours)
Storage temperature	$-50^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Vibration (non-operating)	GJB360A-96, Method 201 (0.75mm total p-p, 10Hz~55Hz)
Shock (non-operating)	GJB360A-96, Method 213, Condition J



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	(30g, 11ms, half-sine)
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3 PACKAGE

	Pin Configuration	
	Pin 1	Output
	Pin 2	Ground, Case
	Pin 3	Control Voltage
	Pin 4	Reference Voltage
	Pin 5	Vcc Power Supply

4 CREATING A PART NUMBER

