



Data Sheet: OCXO 10MHz

P/N: C2525-B5C1-10M000

1 ELECTRICAL SPECIFICATION

PARAMETER		CHARACTERISTIC
Output	Nominal Frequency	10 MHz
	Waveform	Sine wave
	Level	$\geq 8 \pm 2$ dBm
	Harmonics	≤ -30 dBc
	Spurious	≤ -75 dBc
Frequency Stability	Vs. Temperature	± 5 ppb ($-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$, referred to $+25^{\circ}\text{C}$)
	Vs. Load	± 1 ppb (Max) / $50\Omega \pm 5\%$
	Vs. Supply Change	± 1 ppb (Max) / VDC $\pm 5\%$
	Vs. Ageing Per Year	$\pm 30 \times 10^{-9}$ (after 15 working days, typical)
Phase Noise	1Hz	-105dBc / Hz
	10Hz	-135dBc / Hz
	100Hz	-145dBc / Hz
	1kHz	-165dBc / Hz
	10kHz	-170dBc / Hz
	100kHz	-170dBc / Hz
Mechanical Tuning		No
Electrical Tuning Range		$\geq \pm 0.5$ ppm (0-5V, positive slope)
Frequency Control Input Impedance		≥ 100 k Ω
Crystal Type		SC
Input Power	Voltage	+5 VDC $\pm 5\%$
	Warm-up	≤ 3 Watts for 3 minutes
	Steady at 25°C	≤ 1.2 Watts

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	$-55^{\circ}\text{C} \sim +105^{\circ}\text{C}$
Vibration (non-operating)	GJB360A-96, Method 201 (0.75mm total p-p, 10Hz~55Hz)
Shock (non-operating)	GJB360A-96, Method 213, Condition J (30g, 11ms, half-sine)



3. PACKAGE

