



SPECIFICATIONS

OCXO 80MHz

P/N: C2020-B100C1-80M000

1. ELECTRICAL SPECIFICATION

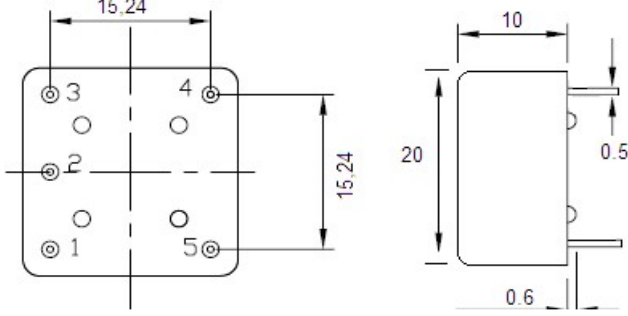
PARAMETER		CHARACTERISTIC
Output	Nominal Frequency	80 MHz
	Waveform	Sine Wave
	Level	$\geq 8.0 \text{ dBm}$ ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Harmonics	$\leq -30 \text{ dBc}$ ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Spurious	$\leq -75 \text{ dBc}$ ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
Frequency Stability	Vs. Temperature	$\pm 100 \text{ ppb}$ ($-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$, referred to $+25^{\circ}\text{C}$)
	Vs. Load	$\pm 5 \text{ ppb}$ (Max) ($50\Omega \pm 5\%$, $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Vs. Supply Changes	$\pm 5 \text{ ppb}$ (Max) ($\text{VDC} \pm 5\%$, $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Vs. Ageing Per Year	$\pm 0.1 \times 10^{-6}$ (after 30 working days, typical)
Phase Noise	10Hz	-100dBc/Hz
	100Hz	-130dBc / Hz
	1kHz	-160dBc / Hz
	10kHz	-165dBc / Hz
	100kHz	-165dBc / Hz
Electrical Tuning Range		$\geq \pm 0.5 \text{ ppm}$ ($0 \sim 5\text{V}$, positive slope)
Frequency Control Input Impedance		$\geq 100 \text{ k}\Omega$
Input Power	Voltage	+5 VDC $\pm 5\%$
	Warm-up State	$\leq 3 \text{ W}$ (25°C)
	Steady State	$\leq 1.2 \text{ W}$ (25°C)
Operation Temperature		$-55^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Storage Temperature		$-55^{\circ}\text{C} \sim 95^{\circ}\text{C}$



2. ENVIRONMENTAL CONDITIONS

Humidity	GJB360B-2009, Method 103, Condition B (+40 °C $\pm$ 2 °C ; 90%~95%R.H.; non-condensing, 96 hours)
Vibration (non-operation)	GJB360B-2009, Method 201 (0.75mm total p-p, 10Hz~55Hz)
Shock (non-operation)	GJB360B-2009, Method 213, Condition J (30g, 11ms, half-sine)

3. PACKAGE

	Pin Configuration	
	Pin 1	Control Voltage
	Pin 2	Reference Voltage
	Pin 3	GND
	Pin 4	Output
	Pin 5	Power Supply