



Data Sheet: OCXO 24MHz

Part Number: C2525-C100D1-24M000

1. ELECTRICAL SPECIFICATION

PARAMETER		CHARACTERISTIC
Output	Nominal Frequency	24 MHz
	Waveform	Sine wave
	Level	> 7 dBm (@25°C±5°C)
	Harmonics	≤ -30 dBc (@25°C±5°C)
	Spurious	≤ -70 dBc (@25°C±5°C)
	Load	50 Ω
Frequency Stability	Initial Freq. Tolerance	≤ ±0.1 ppm (@25°C±5°C, 2.5V±0.2V)
	Vs. Temperature	≤ ±100 ppb (-40°C~+70°C)
	Vs. Load	≤ ±5 ppb (@25°C±5°C, Load±5%)
	Vs. Supply Changes	≤ ±5 ppb (@25°C±5°C, Vcc±5%)
	Vs. Ageing Per Year	≤ ±0.2ppm (after 30 working days, typical)
	Vs. Ageing Per Day	≤ ±2ppb (after 30 working days, typical)
Phase Noise	10Hz	-100 dBc / Hz
	100Hz	-130 dBc / Hz
	1kHz	-155 dBc / Hz
	10kHz	-165 dBc / Hz
	100kHz	-170 dBc / Hz
Allan Deviation		5E-11
Frequency Tuning Range		≥ ±0.5 ppm
Control Voltage Range		0~5 V
Input Power	Voltage	12 V
	Start-up Current	≤ 400 mA (@25°C±5°C)
	Steady Current	≤ 200 mA (@25°C±5°C, Still Air)
Outline Dimension		25x25x13 mm (Tolerance≤±0.5)



2. ENVIRONMENTAL CONDITIONS

Humidity	GJB360A-96, Method 103, Condition A (+40°C ±2°C; 90%~95% R.H.; non-condensing, 96 hours)
Operating Temperature Range	-40°C~+70°C
Storage temperature	-55°C~+125°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

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

4 CREATING A PART NUMBER

