



深圳市维创电子技术有限公司

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SPECIFICATION

Part Number: C2525-B20A1-12M800

1. ELECTRICAL SPECIFICATION

PARAMETER		CHARACTERISTIC
Output	Nominal Frequency	12.8 MHz
	Waveform	Sine Wave
	Level	≥ 8 dBm into $50\ \Omega$ ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Harmonics	≤ -30 dBc ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Spurious	≤ -70 dBc ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
Frequency Stability	Initial Freq. Tolerance	$\leq \pm 0.1$ ppm ($2.5\text{V} \pm 0.2\text{V}$, $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Vs. Temperature	± 20 ppb ($-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$, Referred to $+25^{\circ}\text{C}$)
	Vs. Supply Changes	± 2.0 ppb / $V_{\text{CC}} \pm 5\%$ ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Vs. Load	± 2.0 ppb / $50\ \Omega \pm 5\%$ ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	Vs. Ageing Per Year	± 0.1 ppm (After 30 Working Days, Typical)
	Vs. Ageing Per Day	± 1.0 ppb (After 30 Working Days, Typical)
Phase Noise	@10Hz	-115 dBc / Hz ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	@100Hz	-140 dBc / Hz ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	@1kHz	-150 dBc / Hz ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	@10kHz	-155 dBc / Hz ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
	@100kHz	-160 dBc / Hz ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
Short Term Stability (Allan Deviation)		$1\text{E}-11$
Control Voltage Range		$0 \sim 5.0\text{VDC}$
Electrical Tuning Range		$\geq \pm 0.5$ ppm (Positive Slope)
Operation Temperature Range		$-20 \sim +70$
Storage Temperature		$-55 \sim +125$
Seal		Tin Solder Seal
Input Power	Voltage	$+5\text{ VDC} \pm 5\%$
	Warm-up Current	≤ 600 mA @ $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$
	Steady Current	≤ 200 mA @ $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$, Still Air



2. ENVIRONMENTAL CONDITIONS

Humidity	GJB360A-96, Method 103, Condition A (+40°C $\pm$ 2°C; 90%~95% R.H.; non-condensing, 96 hours)
Storage temperature	-50°C~+85°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

