

Oven Controlled Crystal Oscillator OC20



Features

- Good frequency stability
- Low phase noise
- Pb - free & RoHS Compliance

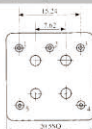
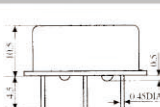
特點

- 頻率溫度穩定度高
- 低相位噪聲
- 無鉛環保產品

Specifications 指標參數

型號	Holder Type	OC20	
頻率範圍	Frequency Range	1.000MHz ~ 160.000MHz	
頻率溫度穩定度	Frequency Stability vs. Temperature range	$\pm 0.5\text{ppm max (at Center Control Voltage)}$	
		AT: $\pm 0.02\text{ppm (0 to }+50^{\circ}\text{C)}$	SC: $\pm 0.005\text{ppm (0 to }+50^{\circ}\text{C)}$
		AT: $\pm 0.03\text{ppm (-20 to }+70^{\circ}\text{C)}$	SC: $\pm 0.01\text{ppm (-20 to }+70^{\circ}\text{C)}$
老化率	Aging	AT: $\pm 0.05\text{ppm (-40 to }+75^{\circ}\text{C)}$	SC: $\pm 0.03\text{ppm (-40 to }+75^{\circ}\text{C)}$
		AT: $\pm 0.002\text{ppm/Day, first year } \pm 0.3\text{ppm, 10 years } \pm 2\text{ppm}$	SC: $\pm 0.001\text{ppm/Day, first year } \pm 0.1\text{ppm, 10 years } \pm 0.5\text{ppm}$
頻率負載穩定度	vs Load Change of $\pm 10\%$	$\pm 0.02\text{ppm max..}$	
頻率電壓穩定度	vs Supply Voltage Change of $\pm 5\%$	$\pm 0.02\text{ppm max.}$	
工作溫度範圍	Operating Temperature Range	$0^{\circ}\text{C to }+50^{\circ}\text{C} \sim -40^{\circ}\text{C to }+75^{\circ}\text{C}$	
儲存溫度範圍	Storage Temperature Range	$-40^{\circ}\text{C to }+100^{\circ}\text{C}$	
輸入電壓	Supply Voltage	$5.0\text{V or }3.3\text{V } \pm 10\%$	
輸入功耗	supply Consumption	$3.6\text{W max. when warm-up; }1.25\text{W max. when static}$	
輸出波型	Output Waveform	Clipped Sine	TTL/HCMOS
輸出負載	Output Load	$10\text{k}\Omega/10\text{pF}$	$10\text{TTL}/15\text{pF}$
振幅 / 輸出電壓	Output Level / Voltage	$>1\text{Vpp}$	$\text{VoH: }2.4\text{V} / 90\%\text{V}$
			$\text{VoL: }0.4\text{V} / 10\%\text{V}$
電流	Current	20mA	
上升 / 下降時間	Rise/Fall Time	6nS Max	
輸出對稱性	Symmetry	$40/60\%$ or $45/55\%$	
預熱時間	Warm-up Time	AT: $\pm 0.1\text{ppm, } <1\text{min.}$	SC: $\pm 0.03\text{ppm, } <1\text{min.}$
可調頻率範圍	Adjustable Frequency Range	AT: $\pm 7.0\text{ppm}$	SC: $\pm 1.0\text{ppm}$
電壓控制範圍	Control Voltage Range	$0\text{-}5\text{V}$	
斜率	Slope	Positive	
綫性	Linearity	$\pm 10\%$	
相位噪聲	Phase Noise	$1\text{Hz, } -80\text{dBc/Hz}$	$100\text{Hz, } -120\text{dBc/Hz}$
		$1\text{kHz, } -145\text{dBc/Hz}$	$10\text{kHz, } -150\text{dBc/Hz}$

Mechanical Dimensions 外型尺寸



• Pin Configuration

#1	V _{DD}
#2	Output
#3	Ground
#4	V _{control}
#5	NC / Reference Voltage

Unit/ 單位: mm