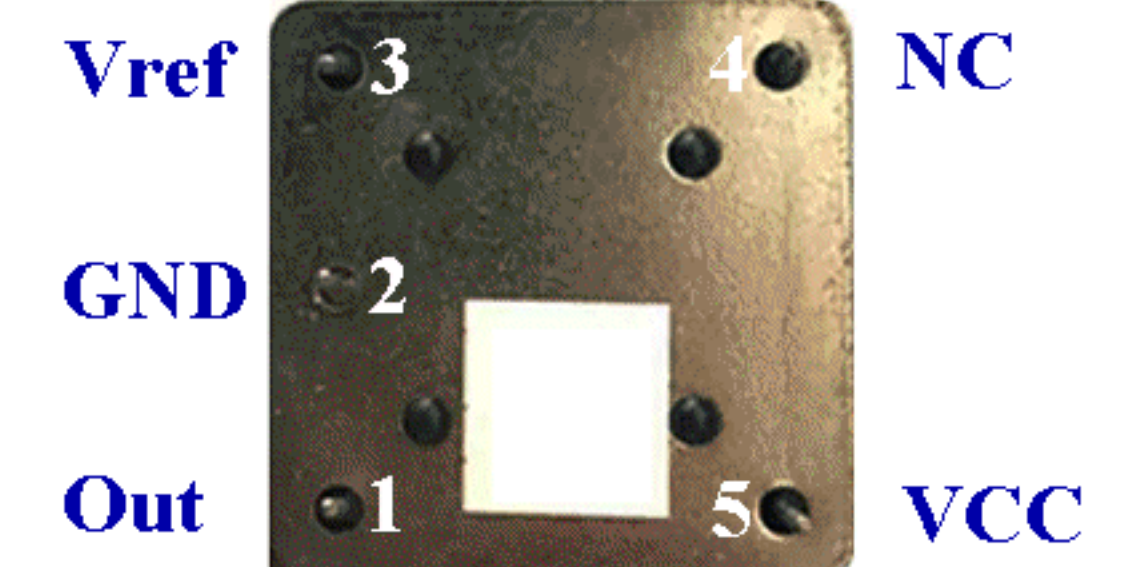




OSC5A2B02

Oven-controlled crystal oscillator (OCXO)

Bottom view



	规格 Specification	参数值 Parameter value	测试条件 Testing conditions
1	标称频率 Nominal frequency	10.00MHz	
2	初始频率准确度 Initial freq. accuracy	≤±200ppb/	Vc=+2.0V, @+25℃, 上电工作15分后 15 min after power on
3	电源稳定度 Power supply stability	≤±2PPB	Vs±5%
4	负载稳定度 Load stability	≤±2PPB	Load±5%
5	老化 Aging	≤±0.5PPB/ day ≤±100PPB/first year ≤±0.4PPM/10 years	上电工作30天后@25℃ 30 days after power on @ 25°
6	温度稳定度 Temperature stability	≤±10PPB	-0℃~+75℃,ref to +25℃
7	短期稳定度 Short term stability	≤0.05ppb/ s	上电1小时后 1 hour after power on
8	开机时间 Turn on time	≤5mins	≤±100ppb/上电5分钟/Vc=中心电压/25℃相对1小时频, Vc=+2.0V,@+25℃
电源电压/电流 Supply voltage / current			
9	电源电压 Supply voltage	+5.0V±5%	
10	工作电流 Working current	≤600mA 初始 Initial	
		≤250mA 稳定状态 Steady state	
输出特性 Output characteristics			
11	输出波形 Output waveform	HCMOS	
12	输出负载 Output load	15pF	
13	输出电平 Output level	VOH: ≥4.5V VOL: ≤ 0.5V	
14	上升/下降时间 Rise / fall time	≤6nS	
15	占空比 Duty cycle	45/55 %	
16	杂波抑制 Clutter suppression	\	
压控特性 Voltage control characteristics			
17	压控范围 Voltage control range	2.0±2.0V	
18	调频范围 Tuning range	-2.0~-1.0ppm	Vc=0V
		-0.2~+0.2ppm	Vc=2.0V
		+1.0~+2.0ppm	Vc=4.0V
19	压控斜率 Voltage control slope	正斜率 Positive slope	
20	压控线性 Voltage controlled linearity	< ±10%	
21	输入阻抗 Input impedance	≥100kΩ	
22	调制带宽 Modulation bandwidth	> 10KHz	
相位噪声 Phase noise			
23	相位噪声 Phase noise	-80dBc/Hz@1Hz -120dBc/Hz@10Hz -140Bc/Hz@100Hz -145dBc/Hz@1KHz -150dBc/Hz@10KHz	
温度范围 Temperature range			
24	工作温度范围 Working	-0℃~+75℃	
25	可工作温度范围 Operating	-40℃~+85℃	
26	存储温度范围 Storage	-55℃~+105℃	
封装尺寸 Package size			
27	封装(mm)	25.4X25.4X12.5	
28	引脚镀层 Pin plating	镀镍+浸锡 Nickel plating + Immersion tin	
29	ROHS	ROHS网络豁免 ROHS Network exemption	