



OC 25 Series OCXO

Features: high precision, high stability, low phase noise, low aging rate, good consistency, mass production, ROHS compliance, custom application, cellular base station, GSM, CDMA, etc., system frequency synthesizer, measurement equipment, test equipment, digital exchange

Main Specifications

Typical frequency specification

Serial number	specification	Parameter value	Test Conditions
<b>Frequency stability</b>			
1	Nominal frequency	10.00MHz	
2	Initial frequency accuracy	≤±200ppb/	Vc=+2.0V, @+25°C, after working for 15 minutes
3	Power stability	≤±2PPB	Vs ± 5%
4	Load stability	≤±2PPB	Load±5%
5	Ageing	≤±0.5PPB/ day ≤±100PPB/first year ≤±0.4PPM/10 years	@25 °C after 30 days of power-on work
6	Temperature stability	≤± 10PPB	0°C~+75°C, ref to +25°C
7	Short-term stability	≤ 0.05ppb / s	1 hour after power-on
8	boot time	≤5mins	≤±100ppb/power-on for 5 minutes/Vc=center voltage/25°C vs. 1 hour frequency, Vc=+2.0V, @+25°C
<b>Supply voltage / current</b>			
9	voltage	+5.0V±5%	
10	Working current	≤600mA initial ≤250mA steady state	
<b>Output characteristics</b>			
11	Output waveform	HCMOS	
12	Output load	15pF	
13	Output level	V OH : ≥4.5V V OL : ≤ 0.5V	
14	Rise/fall time	≤6ns	
15	Duty cycle	45/55 %	
16	Clutter suppression	1	
<b>Voltage control characteristics</b>			
17	Voltage control range	2.0 ± 2.0V	
18	Frequency range	2.0~1.0ppm	Vc=0V
		-0.2~+0.2ppm	Vc=2.0V
		+1.0~+2.0ppm	Vc=4.0V
19	Voltage control slope	Positive slope	
20	Voltage controlled linearity	≤±10%	
twenty one	input resistance	≥100kΩ	
twenty two	Modulation bandwidth	> 10KHz	
<b>Phase noise</b>			
twenty three	Phase noise	-80dBc/Hz@1Hz -120dBc/Hz@10Hz -140dBc/Hz@100Hz -145dBc/Hz@1KHz -150dBc/Hz@10KHz	
<b>temperature range</b>			
twenty four	range of working temperature	0°C~+75°C	
25	Operating temperature range	-40°C~+85°C	
26	Storage temperature range	-55°C~+105°C	
<b>Package size</b>			
27	Package (mm)	25.4X25.4X12.5	
28	Lead plating	Nickel plating + immersion tin	
29	ROHS	ROHS network exemption	