

OCXO Report

Frequency : 10.000000 MHz

Temperature Stability:

Temp (°C)	Freq (MHz)	Dev (ppb)	Current (mA)
25	9.999 999 58		142
-40	9.999 999 57	-1	260
-30	9.999 999 61	+3	240
-20	9.999 999 63	+5	224
-10	9.999 999 65	+7	207
0	9.999 999 67	+9	189
10	9.999 999 69	+11	169
20	9.999 999 72	+14	150
30	9.999 999 73	+15	130
40	9.999 999 74	+16	109
50	9.999 999 75	+17	89
60	9.999 999 76	+18	69
70	9.999 999 77	+19	49
80	9.999 999 77	+19	28
85	9.999 999 62	+4	24

Output waveform : Sine into 50 Ohm, 1.9V(P-P)
Duty Cycle : 51%

Frequency Adjustment :

0V	: 10.000 009 02	+0.95 ppm
2.5V	: 9.999 999 50	
5V	: 9.999 991 74	-0.76 ppm

Power Consumption : 5.64 W During Warmup , 1.7 W when stabilized at 25°C

Warm up : <± 5 ppb after 3 min @ 25°C

Supply : +12V

Supply stability :

11.4 V	: 9.999 999 75	+1 ppb
12.0 V	: 9.999 999 74	
12.6 V	: 9.999 999 75	+1 ppb

Load stability :

45.3Ω	: 9.999 999 72	-2 ppb
49.9Ω	: 9.999 999 74	
54.9Ω	: 9.999 999 76	+2 ppb

Phase Noise :

1 Hz	: -98.8 dBc
10 Hz	: -126.4 dBc
100 Hz	: -137.6 dBc
1 KHz	: -141.2 dBc
10 KHz	: -150.3 dBc
100 KHz	: -152.1 dBc
1 MHz	: -148.1 dBc

Dimensions : 35.4X25.8X18.8 mm
Weight : 23.2grms

Pin Configuration :

- Pin1 : Frequency adjustment (0 to 5V)
- Pin2 : Ref voltage out (8.169V)
- Pin3 : Supply (+12V)
- Pin4 : O/P (Sine) 1.9V(p-p)
- Pin5 : Ground & case

Package : 2050(Leaded)

Phase Noise plot

