

BOWEI OX253B-H-MR-R@10M Oscillator Datasheet

<http://www.manuallib.com/bowei/ox253b-h-mr-r-10m-oscillator-datasheet.html>

Features

High stable output 5×10^{-9}

Warm-up: within 0.05ppm in 120ns

SC cut

Hermetical metal package

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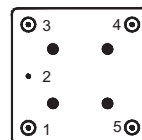
<http://www.manuallib.com>

Features

- High stable output $\sim 5 \times 10^{-9}$
- Warm-up: within 0.05ppm in 120ns
- SC cut
- Hermetical metal package



MP253



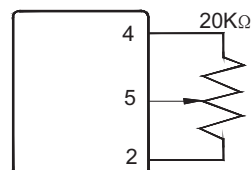
Pin function

- 1:RF output
- 2:Ground
- 3:Power supply
- 4:Reference voltage output or NC
- 5:Frequency control

Electrical specification

Parameter		Characteristic
Power supply		+5V
Frequency range		10MHz
Frequency stability	Vs. temperature	± 5 ppb
	Vs. supply changes	± 0.5 ppb (Max) /Vdc $\pm 5\%$
	Vs. Ageing	± 0.05 ppm/1 st year(Max)
Output	Output level	HCMOS
	Rise/Falltime	≤ 6 ns
	Duty cycle	45%~55%
Phase noise Typical	1Hz	-90 dBc/Hz
	10Hz	-120 dBc/Hz
	100Hz	-140 dBc/Hz
	1KHz	-150 dBc/Hz
	10KHz	-155 dBc/Hz
Operation temperature range		-20~+70°C
short term stability		$\leq 1 \times 10^{-11}$ ($\tau = 1$ s)
Input power(turn-on/steady)		3W/1.5W(Max) @25°C
Storage temperature range		-55~+85°C
Frequency adjustment		± 0.5 ppm(Min)(resistance adjustment)
Dimension		25.6mm*25.6mm*12.7mm

Outside frequency adjustment



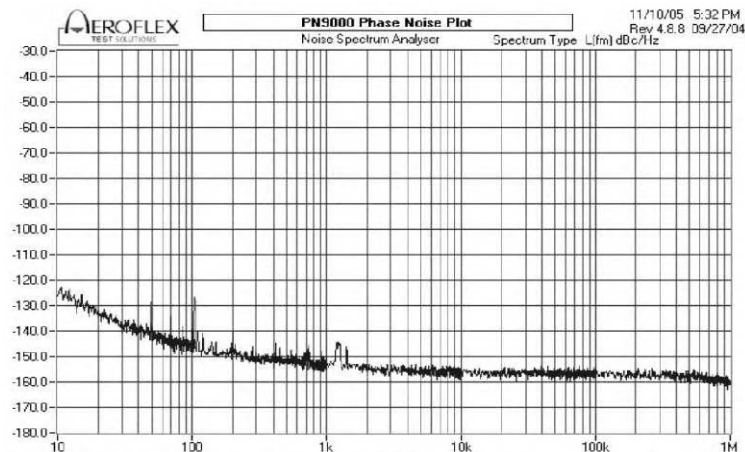
with variable-resistance

Applications:

Base station
Reference clock
Military tactical communications system
Stratum II

Absolute maximum ratings

Supply voltage---+6V
Storage temperature--- + 105



Phase noise vs Offset frequency @SC10MHz

short term stability(typical)

$\leq 5 \times 10^{-10}$	($\tau = 10$ ms)
$\leq 1 \times 10^{-10}$	($\tau = 100$ ms)
$\leq 1 \times 10^{-11}$	($\tau = 1$ s)