

BOWEI DOX551 Oscillator Datasheet

<http://www.manuallib.com/bowei/dox551-oscillator-datasheet.html>

Features

High frequency stability 2×10^{-10}

Good short term stability $2 \times 10^{-12}/S$

SC cut

Ageing $2 \times 10^{-10}/day$

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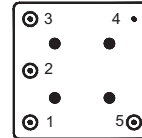
<http://www.manuallib.com>

Features

- High frequency stability $\sim 2 \times 10^{-10}$
- Good short term stability $\sim 2 \times 10^{-12}/S$
- SC cut
- Ageing $\sim 2 \times 10^{-10}/\text{day}$



MP551



Pin function

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

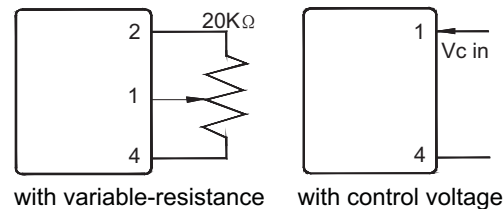
Electrical specification

Parameter		Characteristic		
Power supply		+12V ± 5%(option +5V)		
Frequency range		10~20MHz		
Frequency stability		Vs. temperature	±0.2~±2ppb(see the table)	
		Vs. supply changes	±0.002ppm (Max) /Vdc ± 5%	
		Vs. Ageing	± 0.05ppm/1 st (Max)	
output	Sinewave	Level	+5dBm/50 Ω	
		Harmonics	≤-30dBc	
		Non-Harmonic Suppression	≤-70dBc	
	HCMOS /TTL	Rise/Falltime	≤6ns	Load:15PF
		Duty cycle	45%~55%	
Phase noise 10MHz Typical		1Hz	-100 dBc/Hz	
		10Hz	-130 dBc/Hz	
		100Hz	-140 dBc/Hz	
		1KHz	-150 dBc/Hz	
short term stability		≤2×10 ⁻¹² (τ =1s)		
Input power(turn-on/steady)		5W/2.5W(Max) @25℃		
Storage temperature range		-55~+85℃		
Frequency adjustment (control voltage ± 5V)		±0.5ppm(Min)(resistance adjustment)		
Dimension		50mm*50mm*25mm		

Frequency temperature Stability (ppm)

	± 0.2	± 0.5	± 1	± 2
0~50°C	CP	BP	AP	NP
-10~60°C	CQ	BQ	AQ	NQ
-20~70°C		BR	AR	NR
-30~70°C			AS	NS
-40~70°C				NT

Outside frequency adjustment



Applications:

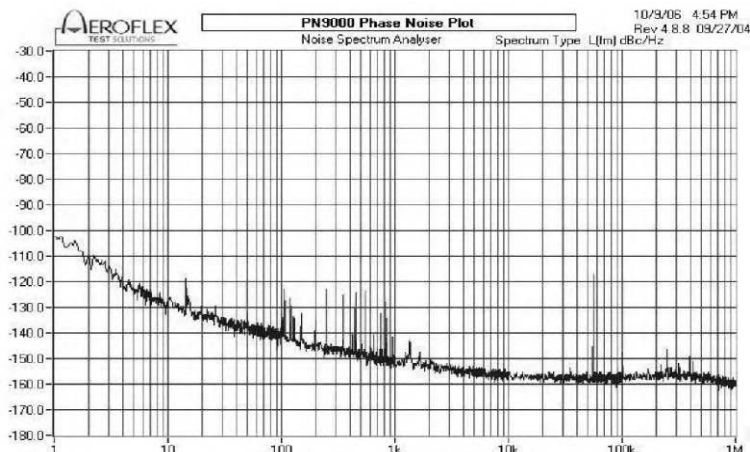
- Precision time keeping device
- GPS/GSM/UMTS/CDMA
- Reference clock
- Military tactical communications system
- Base station

Absolute maximum ratings

- Supply voltage---+15V(+6V)
- Storage temperature--- + 105

Short term stability(10MHz typical)

$\leq 2 \times 10^{-10}$	($\tau = 10\text{ms}$)
$\leq 2 \times 10^{-11}$	($\tau = 100\text{ms}$)
$\leq 2 \times 10^{-12}$	($\tau = 1\text{s}$)



Phase noise vs Offset frequency @10MHz/12V