

BOWEI OX12 OX14 Oscillator Datasheet

<http://www.manuallib.com/bowei/ox12-ox14-oscillator-datasheet.html>

Features

Small size, low power consumption $\leq 500\text{mW}@25(\text{steady})$

Fast warm-up within $\pm 1\text{ppm}$ in 10s

within $\pm 0.1\text{ppm}$ in 100s

Hermetical metal package

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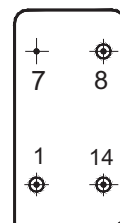
<http://www.manuallib.com>

Features

- Small size, low power consumption
 $\leq 500\text{mW}@25^{\circ}\text{C}$ (steady)
- Fast warm-up, within $\pm 1\text{ppm}$ in 10s
within $\pm 0.1\text{ppm}$ in 100s
- Hermetical metal package



DIP14/DIP14D



Pin function

- 1: Frequency control
- 7: Ground
- 8: RF output
- 14: Power supply

Electrical specification

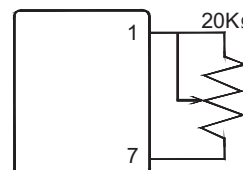
Parameter		Characteristic		
Power supply		+5V±5%(option+3.3V)		
Frequency range		8~40MHz		
Frequency stability		Vs. temperature	±0.05~±0.3ppm(see the table)	
		Vs. supply changes	±0.1ppm(Max)/Vdc±5%	
		Vs. Ageing	±1ppm/1 st year(Max)	
Output	Sinewave	Level	+5dBm/50Ω	
		Harmonics	≤-20dB	
		Non-Harmonic Suppression	≤-70dB	
	HCMOS/TTL	Risetime	≤6ns	Load:15PF
		Falltime	≤6ns	
		Duty cycle	45%~55%	
Phase noise 10MHz Typical		100Hz	-114 dBc/Hz	
		1KHz	-135 dBc/Hz	
		100KHz	-148 dBc/Hz	
Input power(turn-on/steady)		1.5W/0.5W(Max) @25℃		
Operation temperature range		Different range(see the table)		
Storage temperature range		-55~+85℃		
Frequency adjustment		±0.5~±2ppm		
Dimension		See DIP14,DIP14D's outline drawing		

Frequency temperature Stability (ppm)

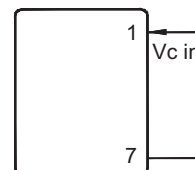
	± 0.05	± 0.1	± 0.2	± 0.3
0~50°C	JP	HP	GP	FP
-10~60°C	JQ	HQ	GQ	FQ
-20~70°C	JR*	HR	GR	FR
-30~70°C	JS*	HS	GS	FS
-40~70°C	JT*	HT	GT	FT
-40~85°C		HU*	GU	FU

Contact us

Outside frequency adjustment



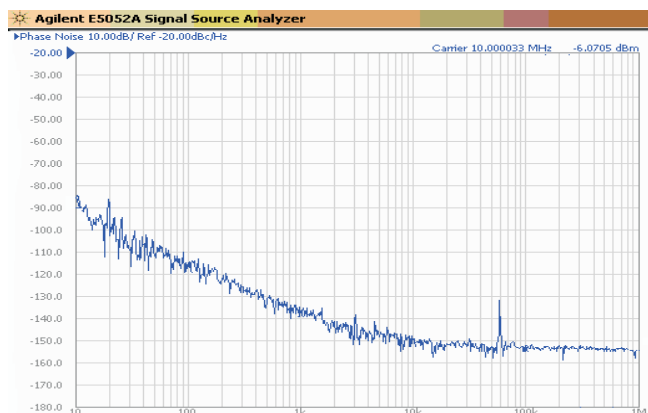
with variable-resistance



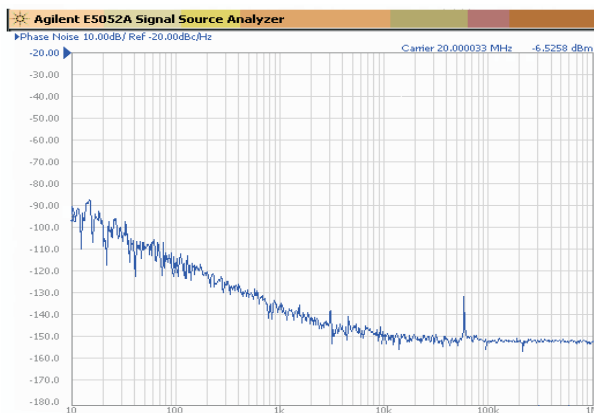
with control voltage

Absolute maximum ratings

Supply voltage--- $+6\text{V}$ ($+4\text{V}$)
Storage temperature--- $+105$



Phase noise vs Offset frequency @10MHz/5V



Phase noise vs Offset frequency @40MHz/5V