

BOWEI OX36 OX38x Oscillator Datasheet

<http://www.manuallib.com/bowei/ox36-ox38x-oscillator-datasheet.html>

Features

High frequency stability 2×10^{-9}

SC cut 10120MHz

Standard freq 10MHz100MHz

Any frequency available

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Features

- High frequency stability $\sim 2 \times 10^{-9}$
- Standard freq 10MHz, 100MHz
- SC cut(10~120MHz)
- Any frequency available



Electrical specification

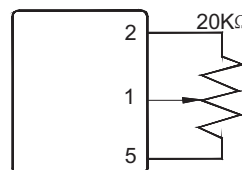
Parameter		Characteristic		
Power supply		+12V±5%(option+5V)		
Frequency range		10~200MHz		
Frequency stability		Vs. temperature	±2~±200ppb(see the table)	
		Vs. supply changes	±2ppb (Max) /Vdc±5%	
		Vs. Ageing	±0.05~0.5ppm/1 st year(Max)	
Output	Sinewave	Level	+7dBm/50 Ω	
		Harmonics	≤-20dBc	
		Non-Harmonic Suppression	≤-70dBc	
	HCMOS/ TTL (~50MHz)	Risetime	≤6ns	Load:15PF
		Falltime	≤6ns	
		Duty cycle	45%~55%	
Phase noise 10MHz Typical		100Hz	-140 dBc/Hz	
		1KHz	-150 dBc/Hz	
		100KHz	-155 dBc/Hz	
Input power(turn-on/steady)		4W/1.5W(Max) @25℃		
Operation temperature range		Different range(see the table)		
Storage temperature range		-55~+85℃		
Frequency adjustment		Custom options available		
Dimension		See MP36x、M38x's outline drawing		

Frequency temperature Stability (ppm)

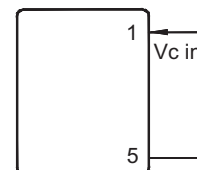
	± 2	± 5	± 10	± 20	± 50	± 100
0~50°C	NP	MP	LP	KP	JP	HP
-10~60°C	NQ	MQ	LQ	KQ	JQ	HQ
-20~70°C	NR*	MR	LR	KR	JR	HR
-30~70°C		MS	LS	KS	JS	HS
-40~70°C		MT*	LT	KT	JT	HT
-40~85°C					JU*	HU
-55~85°C						HW*

Contact us

Outside frequency adjustment



with variable-resistance

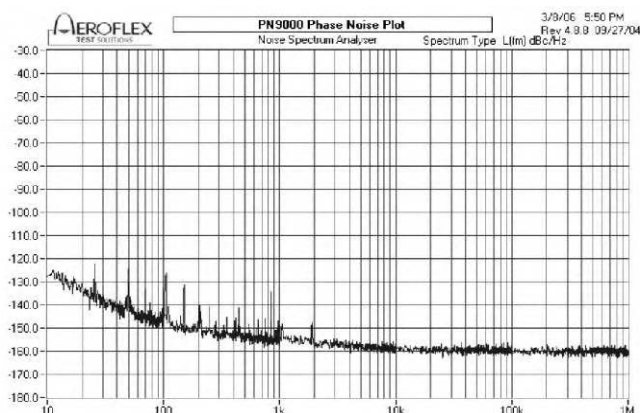


with control voltage

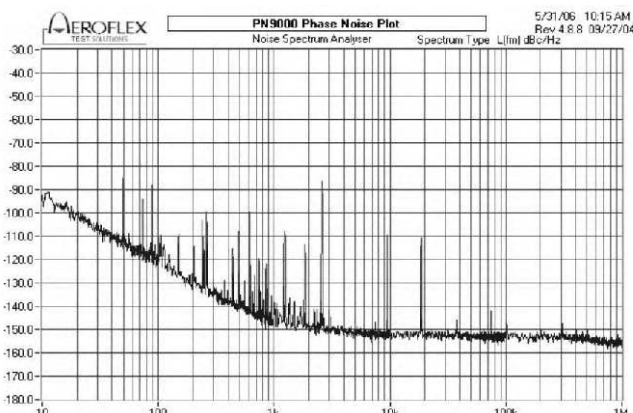
Absolute maximum ratings

Supply voltage---+15V(+6V)

Storage temperature--- + 105



Phase noise vs Offset frequency @SC10MHz/12V



Phase noise vs Offset frequency@SC100MHz/12V

OX36/OX38x series Oven Controlled Crystal Oscillators

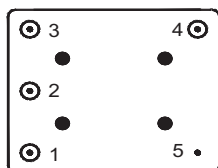


Bottom view

Outline drawing
See appendix for dimension detail

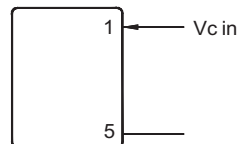
Pin function

Outside frequency adjustment

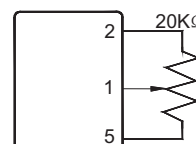


MP3627

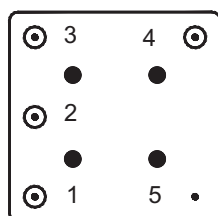
- 1: Frequency control
- 2: Reference voltage output or NC
- 3: Power supply
- 4: RF output
- 5: Ground



with control voltage

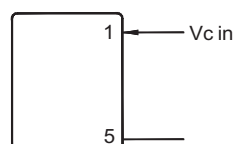


with variable-resistance

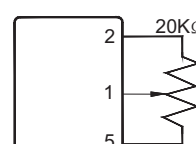


MP3838

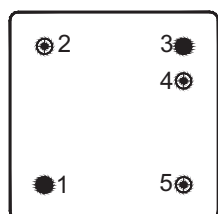
- 1: Frequency control
- 2: Reference voltage output or NC
- 3: Power supply
- 4: RF output
- 5: Ground



with control voltage

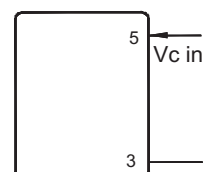


with variable-resistance

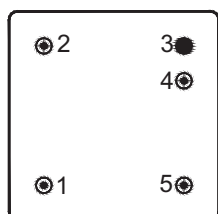


MP381

- 1: Ground
- 2: Power supply
- 3: Ground
- 4: RF output
- 5: Frequency control

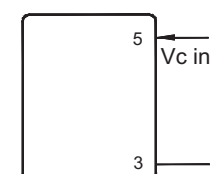


with control voltage

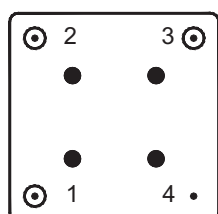


MP382

- 1: Power supply
- 2: Ground
- 3: Ground
- 4: RF output
- 5: Frequency control

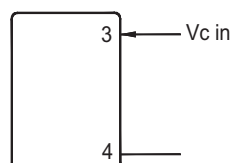


with control voltage

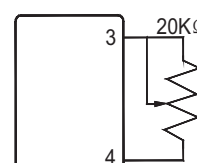


MP383

- 1: RF output
- 2: Power supply
- 3: Frequency control
- 4: Ground



with control voltage



with variable-resistance

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