

BOWEI OXLN5x Oscillator Datasheet

<http://www.manuallib.com/bowei/oxln5x-oscillator-datasheet.html>

Features

Extremely low phase noise

Frequency 10200MHz

Power supply:5V9V12V15V

Wide temperature range

Optional pin arrangement

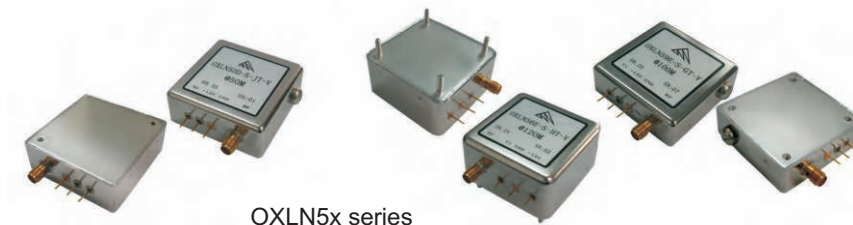
Connectorized output optional

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Features

- Extremely low phase noise
- Frequency 10~200MHz
- Power supply: 5V, 9V, 12V, 15V
- Wide temperature range
- Optional pin arrangement
- Connectorized output optional



OXLN5x series

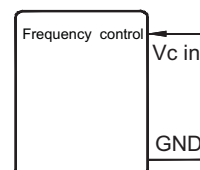
Electrical specification

Parameter		Characteristic	
Power supply		12V	5V
Frequency range		10~200MHz	
Frequency stability	Vs. temperature	$\pm 0.02 \sim \pm 0.5 \text{ ppm}$	
	Vs. supply changes	$\pm 0.01 \text{ ppm (Max) / Vdc} \pm 5\%$	
	Vs. Ageing	$\pm 0.05 \sim \pm 0.5 \text{ ppm/1}^{\text{st}} \text{ year (Max)}$	
output Sinewave	Level	10dBm/50 Ω	5dBm/50 Ω
	Harmonics	$\leq -25 \text{ dB}$	
	Non-Harmonic Suppression	$\leq -70 \text{ dB}$	
Phase noise 100MHz SC cut Typical	10Hz	-100 dBc/Hz	-100 dBc/Hz
	100Hz	-130 dBc/Hz	-130 dBc/Hz
	1KHz	-158 dBc/Hz	-152 dBc/Hz
	10KHz	-170 dBc/Hz	-165 dBc/Hz
	100KHz	-170 dBc/Hz	-167 dBc/Hz
Input power(turn-on/steady)		5.5W/2.5W(Max) @25°C	
Operation temperature range		Different range(see the table)	
Storage temperature range		-55~+100°C	
Frequency adjustment (control voltage $\pm 5 \text{ V}$)		$\pm 2 \text{ ppm (Min)}$ (option resistance adjustment)	
Dimension		See outline drawing	

Frequency temperature Stability (ppm)

	± 0.01	± 0.02	± 0.05	± 0.1	± 0.2
0~50°C	LP	KP	JP	HP	GP
-10~60°C	LQ	KQ	JQ	HQ	GQ
-20~70°C		KR	JR	HR	GR
-30~70°C		KS	JS	HS	GS
-40~70°C		KT	JT	HT	GT
-40~85°C			JU	HU	GU
-55~85°C			JW	HW	GW

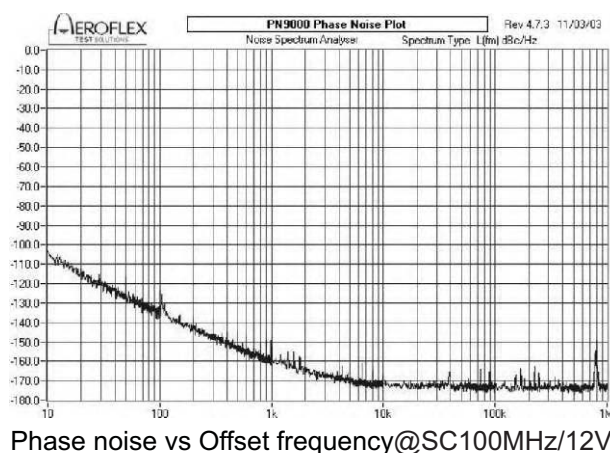
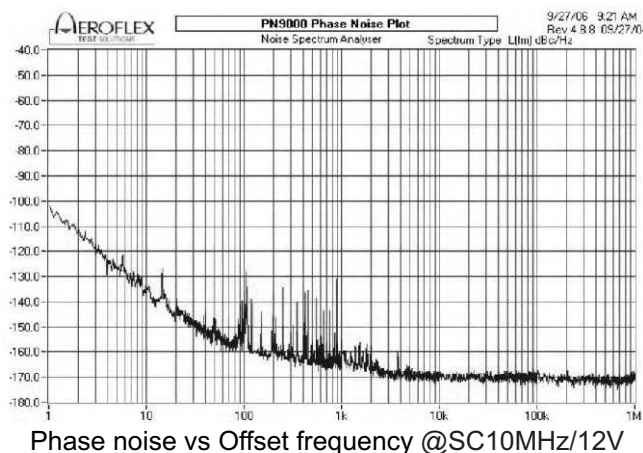
Outside frequency adjustment



with variable-resistance

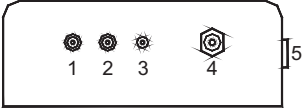
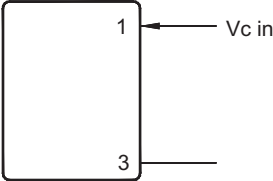
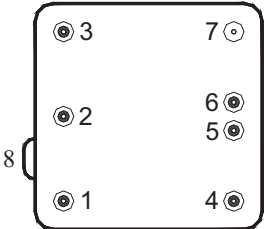
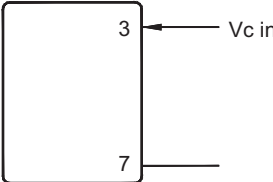
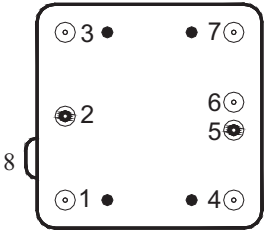
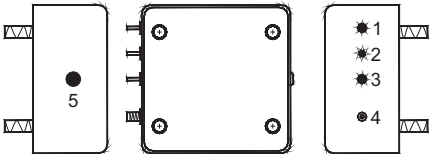
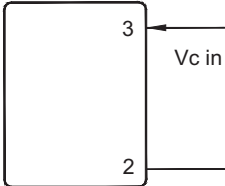
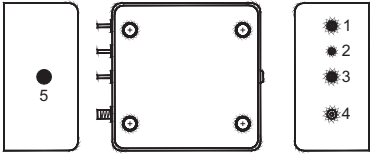
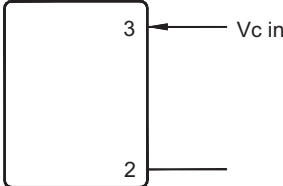
Absolute maximum ratings

Supply voltage---+15V/+6V
Storage temperature--- +105



OXLN5x series Ultra Low Phase Noise Crystal Oscillators



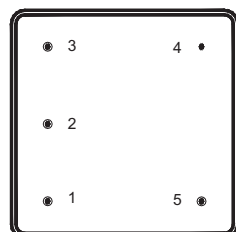
Bottom view Outline drawing See appendix for dimension detail	Pin function	Outside frequency adjustment
 MP50	1: Frequency control(Vt) 2: Power supply(Vcc) 3: Ground 4: RF output SMA-K 5: Mechanical frequency adjust	 with control voltage
 MP51	1: Ground 2: Power supply(Vcc) 3: Frequency control(Vt) 4: NC 5: RF output 6: Ground 7: Ground 8: Mechanical frequency adjust	 with control voltage
 MP52	1: Ground 2: Power supply(Vcc) 3: Ground 4: Ground 5: RF output 6: Ground 7: Ground 8: Mechanical frequency adjust	
 MP53	1: Power supply(Vcc) 2: Ground 3: Frequency control(Vt) 4: RF output SMA-K 5: Mechanical frequency adjust	 with control voltage
 MP54	1: Power supply(Vcc) 2: Ground 3: Frequency control(Vt) 4: output SMA-K 5: Mechanical frequency adjust	 with control voltage

Bottom view
Outline drawing

See appendix for dimension detail

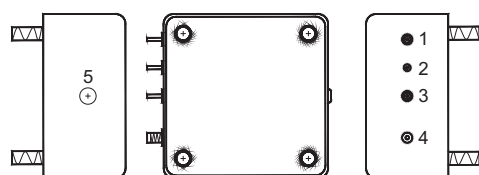
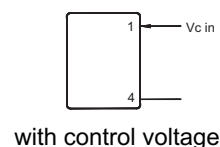
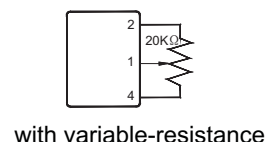
Pin function

Outside frequency adjustment



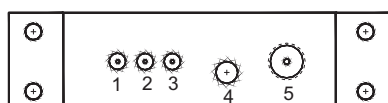
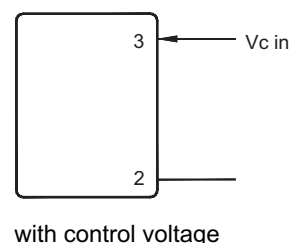
MP55

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



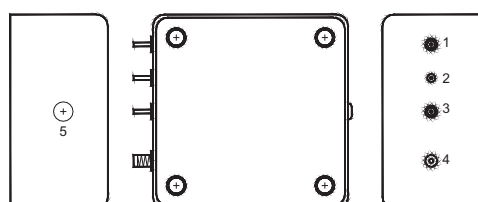
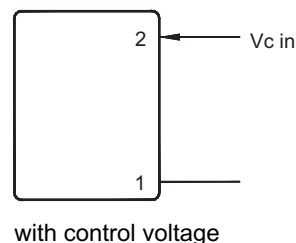
MP56

- 1: Power supply(Vcc)
- 2: Ground
- 3: Frequency control(Vt)
- 4: RF output
- 5: Mechanical frequency adjust



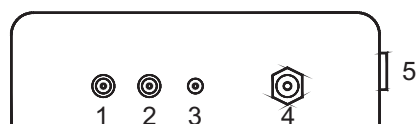
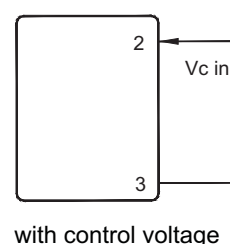
MP57

- 1: Ground
- 2: Frequency control(Vt) or NC
- 3: Power supply(Vcc)
- 4: Mechanical frequency adjust
- 5: RF output SMA-K



MP58

- 1: Power supply(Vcc)
- 2: Ground
- 3: Frequency control(Vt)
- 4: RF output SMA-K
- 5: Mechanical frequency adjust



MP59

- 1: Frequency control(Vt)
- 2: Power supply(Vcc)
- 3: Ground
- 4: RF output SMA-K
- 5: Mechanical frequency adjust

