

Features

- Extremely low phase noise
- Frequency 10~200MHz
- Power supply: 5V, 9V, 12V, 15V
- Wide temperature range
- Frequency adjustment slope: positive or negative



MP36/MP38x

Electrical specification

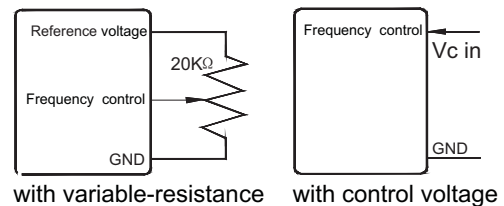
Parameter		Characteristic	
Power supply		12V	5V
Frequency range		10~200MHz	
Frequency stability	Vs. temperature	$\pm 0.02 \sim \pm 0.5$ ppm(see the table)	
	Vs. supply changes	± 0.01 ppm (Max) /Vdc $\pm 5\%$	
	Vs. Ageing	$\pm 0.05 \sim \pm 0.5$ ppm/1 st year (Max)	
output	Sinewave	Level	10dBm/50 Ω 5dBm/50 Ω
		Harmonics	≤ -25 dB
		Non-Harmonic Suppression	≤ -70 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)		4.5W/2W(Max) @25 $^{\circ}$ C	
Operation temperature range		Different range(see the table)	
Storage temperature range		-55~+100 $^{\circ}$ C	
Frequency adjustment (control voltage ± 5 V)		± 2 ppm(Min)(option resistance adjustment)	
Dimension		See MP36,MP38x's outline drawing (option height 14,16,19mm)	

Frequency temperature Stability (ppm)

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

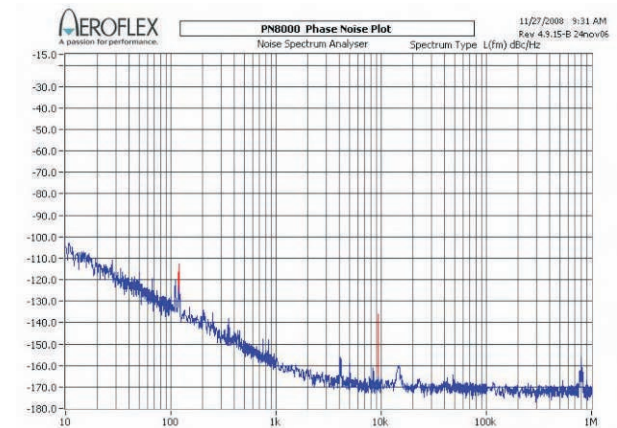
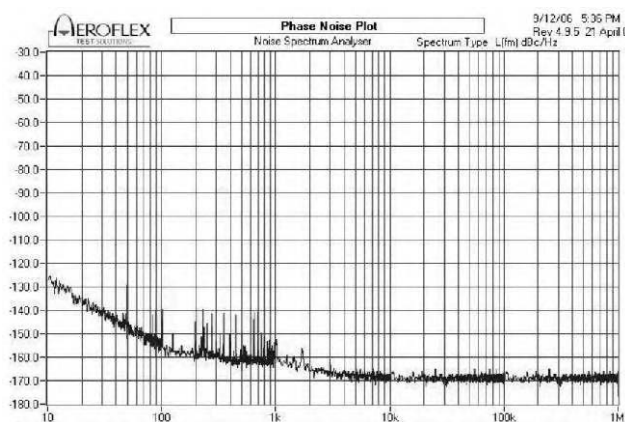
*OXLN36: $\pm 0.02 \sim \pm 0.2$ ppm

Outside frequency adjustment



Absolute maximum ratings

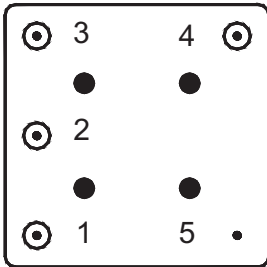
Supply voltage---+15V/+6V
Storage temperature--- + 105



Bottom view
Outline drawing
See appendix for demission detail

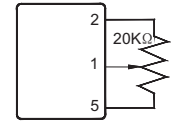
Pin function

Outside frequency adjustment

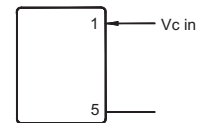


MP3627/MP3838

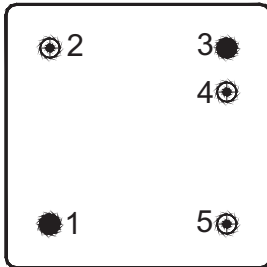
- 1:Frequency control
- 2:Reference voltage output or NC
- 3:Power supply
- 4:RF output
- 5:Ground



with variable-resistance

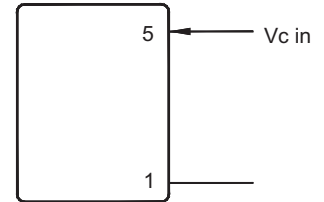


with control voltage

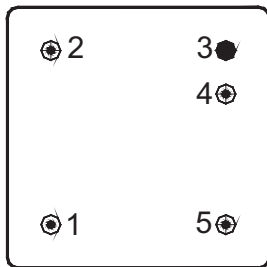


MP381

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

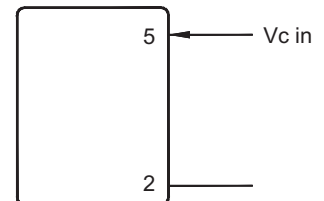


with control voltage

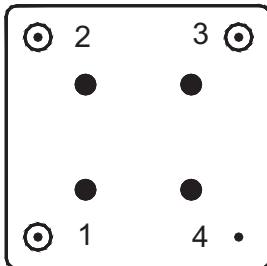


MP382

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

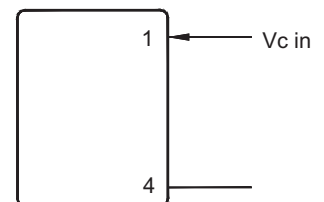


with control voltage



MP383

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



with control voltage