

# BOWEI OX36D-H-MR-V@10M Oscillator Datasheet

<http://www.manuallib.com/bowei/ox36d-h-mr-v-10m-oscillator-datasheet.html>

## Features

High frequency stability  $3 \times 10^{-9}$

Short warm-up time  $1 \times 10^{-11}$ /S

SC cut

For basestation

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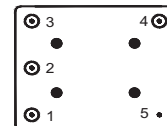
### Features

- High frequency stability  $\sim 3 \times 10^{-9}$
- Short warm-up time  $\sim 1 \times 10^{-11}/S$
- SC cut
- For basestation



MP3627

### Bottom veiw



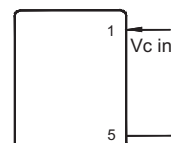
### Electrical specification

| Parameter                   |          | Characteristic              |                                    |           |
|-----------------------------|----------|-----------------------------|------------------------------------|-----------|
| Power supply                |          | +12V±5%                     |                                    |           |
| Frequency range             |          | 10MHz                       |                                    |           |
| Frequency stability         |          | Vs. temperature             | ±3ppb                              |           |
|                             |          | Vs. supply changes          | ±0.5ppb (Max) /Vdc±5%              |           |
|                             |          | Vs. Ageing                  | ±0.05ppm/1 <sup>st</sup> year(Max) |           |
| output                      | Sinewave | Output level                | HCMOS                              | Load:15PF |
|                             |          | Harmonics                   | ≤6ns                               |           |
|                             |          | Non-Harmonic Suppression    | 45%~55%                            |           |
| Phase noise<br>Typical      |          | 1Hz                         | -95 dBc/Hz                         |           |
|                             |          | 10Hz                        | -125 dBc/Hz                        |           |
|                             |          | 100Hz                       | -140 dBc/Hz                        |           |
|                             |          | 1KHz                        | -150 dBc/Hz                        |           |
|                             |          | 10KHz                       | -155 dBc/Hz                        |           |
| Operation temperature range |          | -20~+70℃                    |                                    |           |
| short term stability        |          | ≤1×10 <sup>-11</sup> (τ=1s) |                                    |           |
| Input power(turn-on/steady) |          | 4W/1.5W(Max) @25℃           |                                    |           |
| Storage temperature range   |          | -55~+85℃                    |                                    |           |
| Frequency adjustment        |          | ±0.5ppm (Min)               |                                    |           |
| Dimension                   |          | 36mm*27mm*12.7mm            |                                    |           |

### Pin function

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

### Outside frequency adjustment



with control voltage

### Applications:

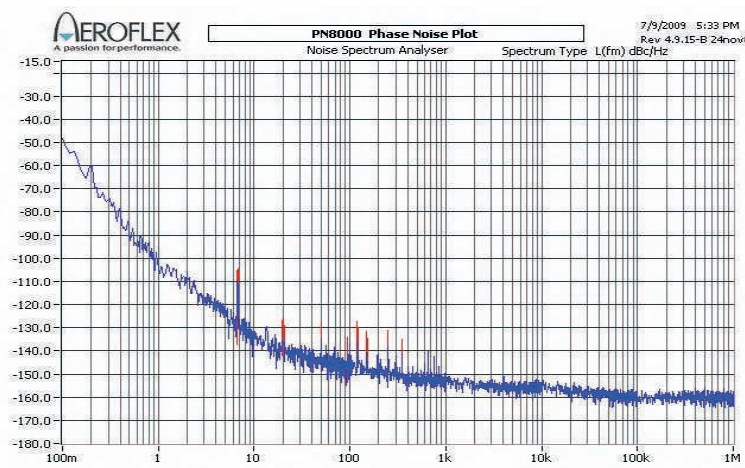
- Precision time keeping device
- GPS/GSM/UMTS/CDMA
- Reference clock
- Military tactical communications system
- Stratum II
- Base station

### Absolute maximum ratings

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

### Short term stability(typical)

|                          |                           |
|--------------------------|---------------------------|
| $\leq 5 \times 10^{-10}$ | ( $\tau = 10\text{ms}$ )  |
| $\leq 5 \times 10^{-11}$ | ( $\tau = 100\text{ms}$ ) |
| $\leq 5 \times 10^{-12}$ | ( $\tau = 1\text{s}$ )    |



Phase noise vs Offset frequency @SC10MHz/12V