



## PHASE LOCKED OSCILLATORS

**MPLOxxxx**

(MODEL)

- ✿ **LOW COST**
- ✿ **LOW NOISE**
- ✿ **LOW POWER CONSUMPTION**
- ✿ **CUSTOM OPTIONS AVAILABLE ON REQUEST**

Package Style: - miniature PLO ( 1.50"x 0.75"x 0.32")  
- custom (user defined)

### DESCRIPTION

The Spinnaker Microwave series of Miniature Phase Locked Oscillators cover a frequency range of 1 to 5 GHz (fixed frequency output) and utilize Step Recovery Diodes for ultra low noise performance. They exhibit low power consumption and hermetically sealed packaging

### SPECIFICATIONS - Custom tuning options available, please inquire for details

|                      | UNITS  | VALUE       |             |                        |
|----------------------|--------|-------------|-------------|------------------------|
|                      |        | LOWER (MIN) | UPPER (MAX) |                        |
| OUTPUT FREQUENCY     | GHz    | 1.0         | 5.0         | Fixed Frequency Output |
| FREQUENCY STEP SIZE  | MHz    | N/A         |             |                        |
| OUTPUT POWER         | dBm    | 10          | 15          |                        |
| HARMONICS            | dBc    | 15          |             | at 2000 MHz            |
| SPURIOUS PRODUCTS    | dBc    | 60          |             |                        |
| PHASE NOISE: 1 kHz   | dBc/Hz |             |             |                        |
| 10 kHz               | dBc/Hz |             | -120        |                        |
| 100 kHz              | dBc/Hz |             | -135        |                        |
| 1 MHz                | dBc/Hz |             |             |                        |
| EXT REFERENCE        | MHz    | 100         | 100         |                        |
| REFERENCE POWER      | dBm    | -3          | 0           |                        |
| PROGRAMMING          |        | N/A         |             |                        |
| LOCK DETECT          | TTL    | LOW         |             |                        |
| OSC BIAS             | VOLTS  |             | 12          |                        |
|                      | mA     |             | 250         |                        |
| OPERATING TEMP RANGE | Deg C  | -20         | 75          |                        |

**SPINNAKER MICROWAVE / [www.spinnakermicrowave.com](http://www.spinnakermicrowave.com)**

3281 KIFER ROAD

SANTA CLARA, CA 95051

TEL: 408-732-9828 FAX: 408-732-9793