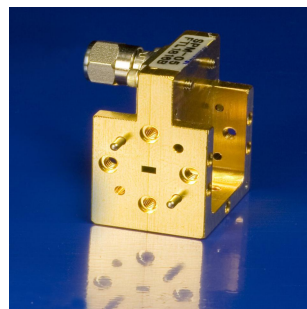


## Datasheet

### Description

A high performance subharmonically pumped mixer in WR-06 band.



### Features

- High performance
- Full WR-06 band coverage
- Sub-harmonically pumped
- Low noise figure
- Low LO power level
- Low conversion loss

### Applications

- Heterodyne receivers
- Instrumentation
- Imaging front ends

| Specification    | Unit | Min              | Typ  | Max  |
|------------------|------|------------------|------|------|
| RF Frequency     | GHz  | 110              |      | 170  |
| LO Frequency     | GHz  | 55               |      | 85   |
| IF Frequency     | GHz  | 0.1              | 4    | 20   |
| Noise Figure DSB | dB   | 4                | 6    | 10   |
| Tmix DSB         | K    |                  | 865  | 2610 |
| Conversion Loss  | dB   |                  | 6    | 10   |
| LO Drive Level   | mW   | 2                | 3.25 | 6    |
| RF Waveguide     | -    | WR-06 UG-387/U-M |      |      |
| LO Waveguide     | -    | WR-12 UG-387/U-M |      |      |
| LO Connector     | -    | SMA (F)          |      |      |

### Notes:

Farran Technology reserves the right to change, without notice, the characteristic data and other specifications applied to this product. The product may be subject to Irish export restrictions.

Datasheet

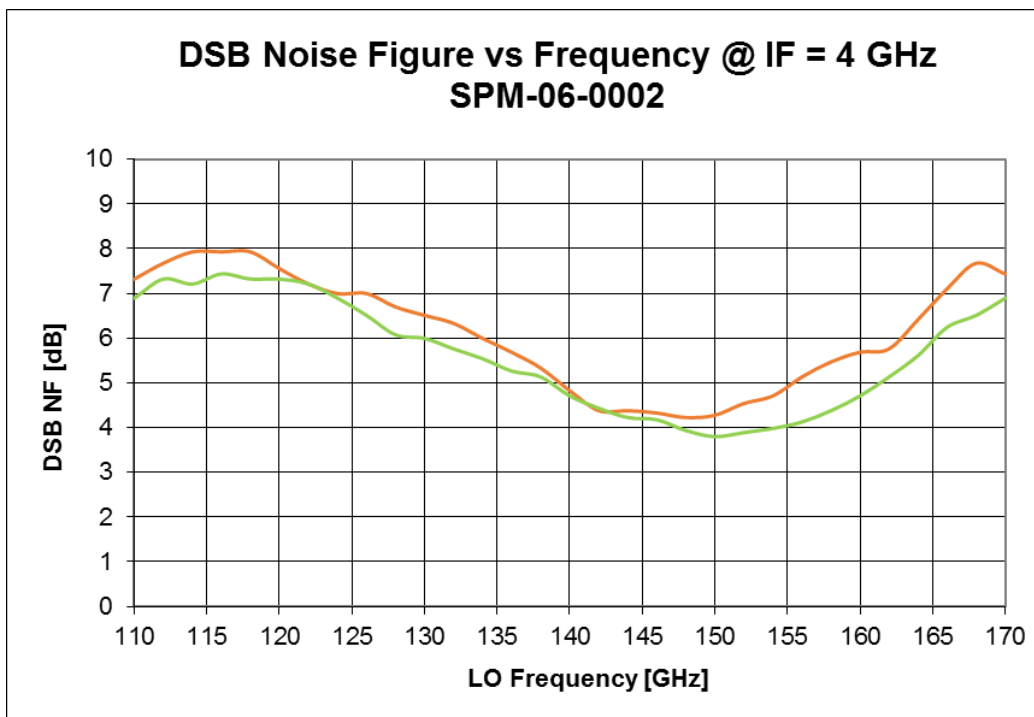


Figure 1. Typical full band performance of SPM-06-0002 with LO power = 3 mW.