

**Datasheet**
**Description**

A high performance harmonic mixer series offering low conversion loss with no bias required. Suitable for use with Agilent and Rohde & Schwarz spectrum analysers for frequency extension applications.

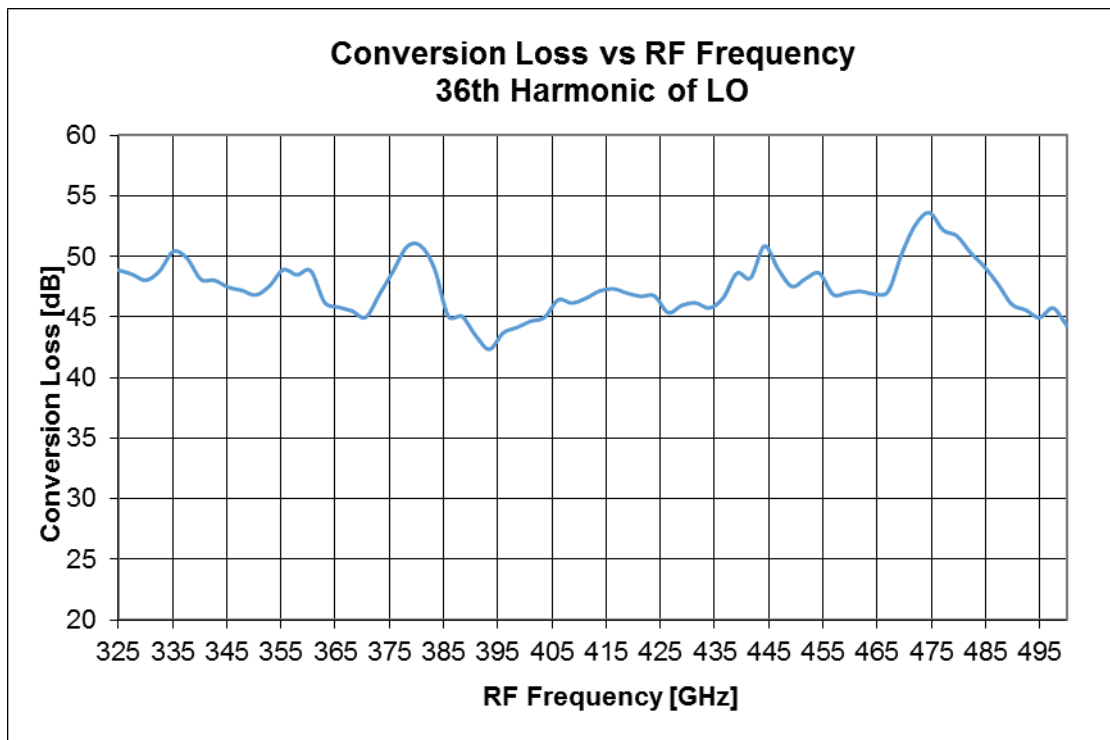

**Features**

- Low conversion loss
- Flat frequency response
- Frequency coverage up to 500 GHz
- Unbiased anti-parallel diode pair

**Applications**

- Spectrum analysis
- mm-Wave instrumentation
- Signal processing
- Phased locked loops

| <b>Specification (Agilent)</b> | <b>Unit</b> | <b>Min</b>   | <b>Typ</b> | <b>Max</b> |
|--------------------------------|-------------|--------------|------------|------------|
| Frequency Range                | GHz         | 325          |            | 500        |
| Waveguide Designation          |             | WR-2.2       |            |            |
| IF Frequency Range             | MHz         | DC-1000      |            |            |
| LO Harmonic Number             |             | 36           |            |            |
| LO Frequency Range             | GHz         | 9.03 – 13.89 |            |            |
| Conversion Loss (typ.)         | dB          | 55           |            |            |
| LO Level                       | dBm         | 14           | 15         | +16.5      |
| Flange                         |             | UG387/U-M    |            |            |
| Output Connector               |             | K-female     |            |            |
| Bias Required                  |             | None         |            |            |
| CW RF Input Level              |             |              |            | 0          |
| RF Input VSWR                  |             | <3.6:1       |            |            |

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**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.