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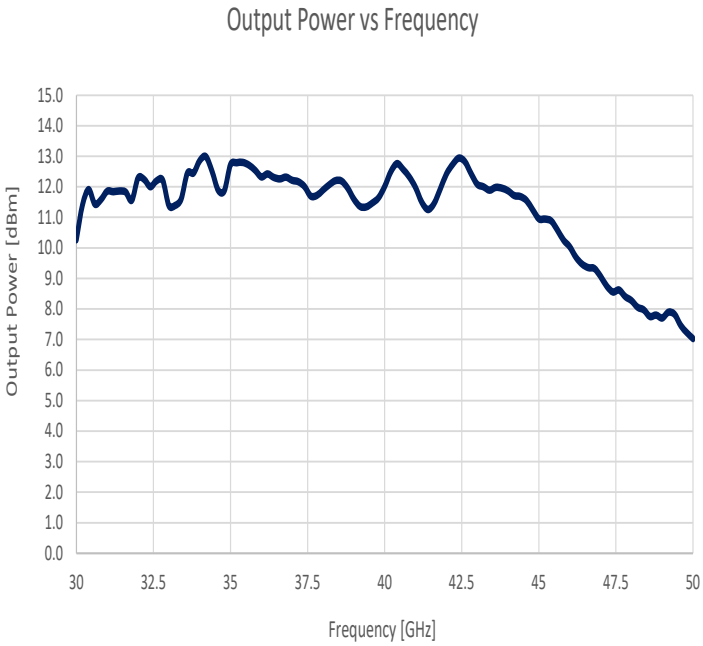
# x2 Passive Multiplier 30-50 GHz: **FD-22-0001**

**Farran's FD-22-0001 is a general purpose x2 full band passive doubler in the WR-22 30-50 GHz frequency range**

**Key Facts:**

- Wideband Coverage
- High Effeciency
- Fixed Tuned
- Unbiased Planar Diodes




## APPLICATIONS

- Communication receivers
- Radar front ends
- Driver amplifiers
- Point to point communication

## ACCESSORIES

- User manual

"We have made many Farran purchases, including amplifiers, mixers and multipliers. They are all high-performance devices and always meet our expectations. Farran supplied each component with comprehensive set of test results and a manual, which is not necessarily a given in this industry. Moreover, due to the accessibility of Farran's engineering team we were able to get CAD models of the devices prior to placing an order. This was a nice touch from the Farran team and helped with integrating the components into our system so that we could meet our project's deadline with confidence."

**Microwave Circuit Designer & Engineer, Multinational Electronic Test Equipment Manufacturer.**

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# Product Specification

| Specification | Unit | Min | Typ | Max |
|---|---|---|---|---|
| Input Frequency | GHz | 15 | - | 25 |
| Output Frequency | GHz | 30 | - | 50 |
| Multiplication Factor | - | - | 2 | - |
| Pin | dBm | +18 | +21 | +23 |
| Pout | dBm | - | +10 | - |
| Effeciency | % | - | 9 | - |
| Input Port | - | - | K(f) | - |
| Output Port | - | - | WR-22 UG383/U | - |

## SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Application Support
- Hardware Support

For more information on any of our products or services please visit our website: www.farran.com

## TECHNICAL SUPPORT

- Technical support provided directly by our knowledgeable and friendly engineers.
- Support for pre- and post-purchase: system configuration, installation and troubleshooting.

## PRODUCT INSIGHTS

- For more product insights register at www.farran.com/customer
- Additional information: test data, CAD drawings and 3D models available.

## WARRANTY

- Standard 1 year warranty.

## Specification Definitions

**Nominal value (nom.)** – ensured by design, not tested. **Measured value (min, max)** – expected and warranted product performance obtained from the actual measurements of product sample. **Non-traceable measured value (n. trc. meas.)** – expected product performance obtained from the actual measurements of a product sample by means of using Farran's own equipment and methods. Traceable only to Farran laboratory equipment. **Typical data (typ.)** – value that represents the product specification met over 90% of bandwidth or a mean value. **Specifications without limits** – represent the warranted product performance; with values of no or a negligible deviation from the given value and as such have a secondary impact on the product performance.