



## x2 Passive Multiplier 35-60 GHz: FD-19-0001

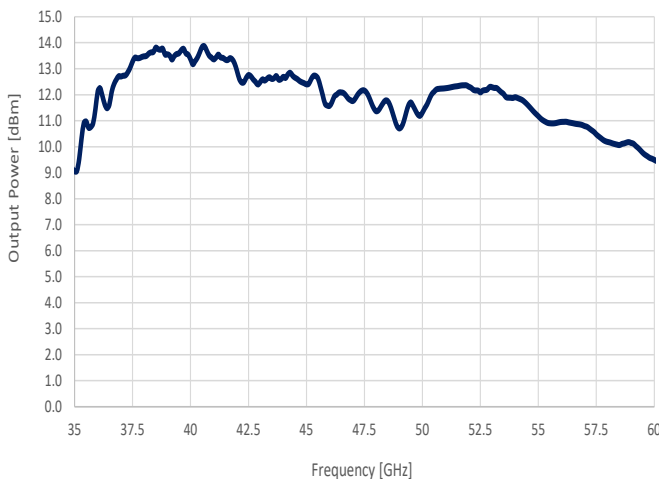
Farran's FD-19-0001 is a general purpose MMIC packaged x2 full band passive doubler in the 35-60 GHz WR19 frequency range

### Key Facts:

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



Output Power vs Frequency



### 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 systems so that we could meet our project's deadline with confidence."

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



## Product Specification

| Specification         | Unit | Min  | Typ              | Max |
|-----------------------|------|------|------------------|-----|
| Input Frequency       | GHz  | 17.5 | -                | 30  |
| Output Frequency      | GHz  | 35   | -                | 60  |
| Multiplication Factor |      | -    | 2                | -   |
| Pin                   | dBm  | +18  | +21              | +23 |
| Pout                  | dBm  | -    | +10              | -   |
| Effeciency            | %    | -    | 9                | -   |
| Input Connector       |      |      | K(f)             |     |
| Output Connector      |      |      | WR-19<br>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](http://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](http://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.

