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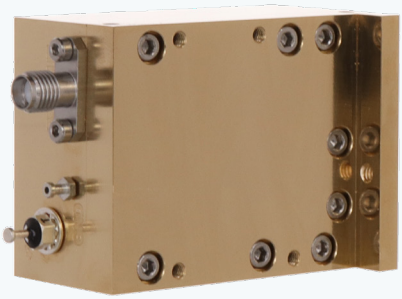
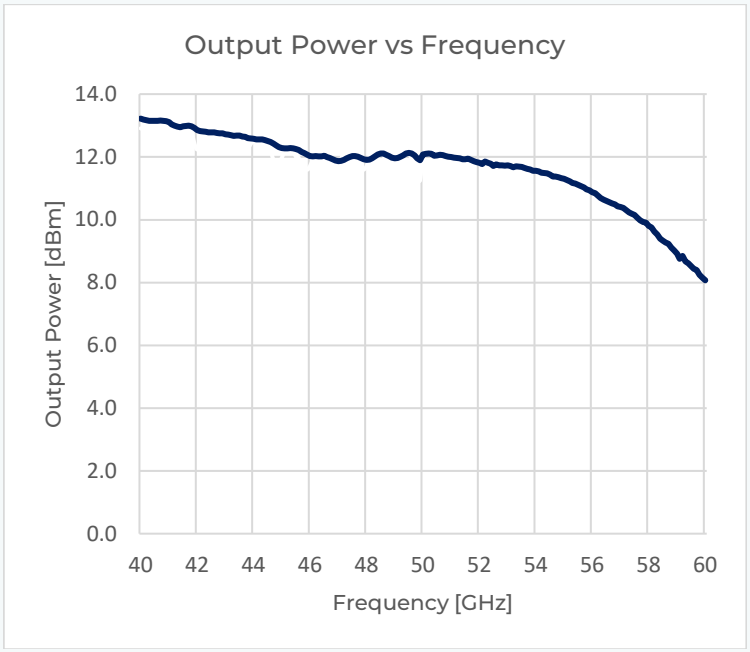
# x4 Active Multiplier 40-60 GHz: **FXA-19-0001**



**Farran's FXA-19-0001 is a general purpose MMIC packaged x4 multiplier in the WR-19 40-60 GHz frequency range**

**Key Facts:**

- Wideband Coverage
- Compact Outline
- Low Power Consumption
- Low Harmonic Level




## 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 | 10 | - | 15 |
| Output Frequency | GHz | 40 | - | 60 |
| Multiplication Factor | - | - | 4 | - |
| Pin | dBm | 7 | - | 12 |
| Pout | dBm | 7 | 11 | - |
| Harmonic Level | dBc | - | -30 | - |
| Input Port Damage Level (nom.) | dBm | 15 | - | - |
| Input VSWR (nom.) | - | - | 2.0:1 | - |
| Supply Voltage | V | - | 6 | - |
| Current | mA | - | 850 | - |
| Input Port | - | - | SMA(F) | - |
| Weight | g | | 80 | |
| Dimensions (approx. LxWxH) | mm | - | 47.5 x 40 x 30 | - |
| Output Port | - | - | WR-19 UG385/U | - |
| Operating Temperature (nom.) | °C | 0 | - | 30 |

## 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.