



## WR-12 High Power Amplifier 71-78 GHz: FPA-12-0003

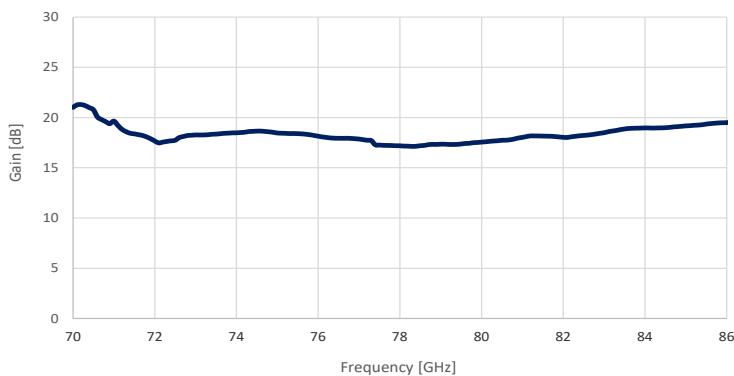
Farran's FPA-12-0003 is a high power WR-12 waveguide band amplifier providing +23.5 dBm typical output power.

### Key Facts:

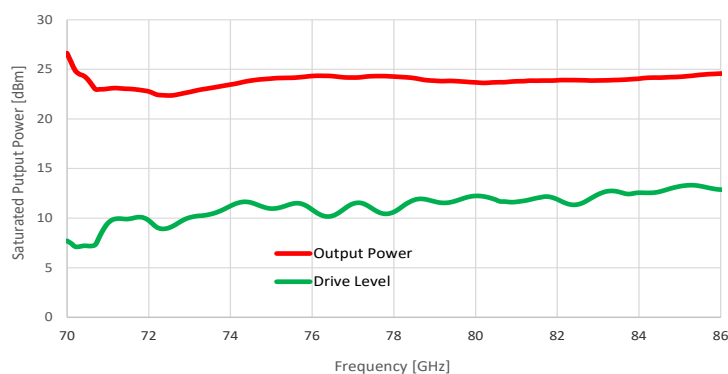
- High gain
- High PIdB
- Wide bandwidth



Typical Gain vs Frequency



Typical Saturated 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    |
|-----------------------------|--------|----------------|--------------|--------|
| Operating Frequency         | GHz    | 71             | -            | 78     |
| Gain                        | dB     | 15             | 18           | -      |
| Output Power (saturated)    | dBm    | -              | +23.5        | -      |
| Input / Output Port         | -      | WR-12 UG-387/U |              |        |
| DC Power                    | V / mA | -              | 6/800        | 9/1000 |
| Case Operating Temp. (nom.) | deg. C | -20            | -            | +50    |
| Dimensions (L x W x H)      | mm     | -              | 32 x 40 x 20 | -      |



### 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.

