

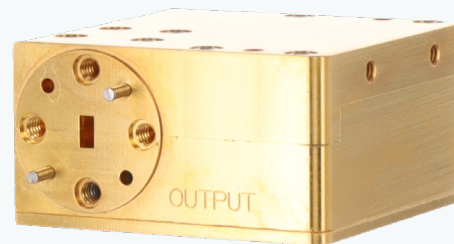


x6 Multiplier with VCO 75-110 GHz: FXA-10-0002

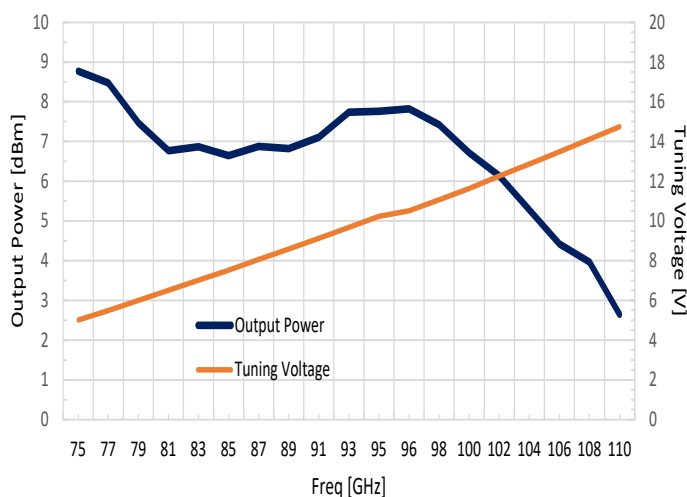
Farran's FXA-10-0002 is general purpose MMIC packaged x6 multiplier with integrated VCO in the WR-10 75-110 GHz frequency range

Key Facts:

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



Output Power and Tuning Voltage vs Frequency



APPLICATIONS

- Communications
- Radar front ends
- Millimeter wave imaging
- 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 |
|-------------------------------|------|--------|---------------------|-----------|
| Output Frequency | GHz | 75 | - | 110 |
| Multiplication Factor | - | - | 6 | - |
| VCO FB Output Power (nominal) | dBm | - | less than 0 | - |
| VCO Tuning Volt (nominal) | V | 0 | - | 20 |
| Harmonic Level (nominal) | dBc | - | -30 | - |
| Switch Control Voltage | V | 0 (on) | - | 3.3 (off) |
| DC & Control Connector | - | - | 9 Way Micro-D | - |
| Output Power | dBm | 0 | 7 | 10 |
| Harmonic Level | dBc | - | -30 | - |
| Supply Voltage | V | - | 6 | - |
| Current | mA | - | 1000 | - |
| VCO Feedback Connector | - | - | SMA(f) | - |
| Output Port | - | - | WR-10 UG387/ U-M | - |



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.

