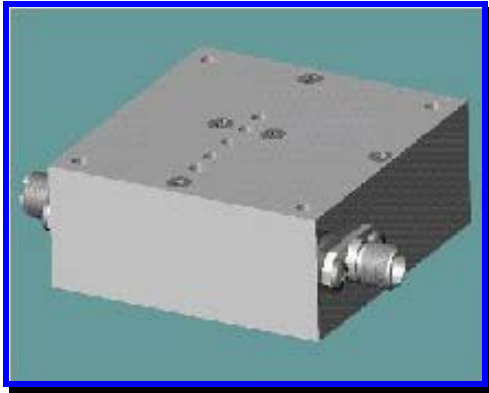


## Microwave Radio Frequency Multiplier



**RFM Series Multiplier**

- ❑ 2 GHz Input / 6 GHz or 8 GHz Output
- ❑ Integral RF Power Amplifier
- ❑ Low Drive Power
- ❑ 12 Vdc Operation
- ❑ Low Power Consumption
- ❑ Compact Size
- ❑ Rugged Packaging

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## RFM Series Microwave Radio Frequency Multiplier

The RFM Series provides an economical way to add multi-band capability to a 2 GHz transmitter. The RFM-100 requires only 10 mW of RF drive at 2 GHz to deliver 1 W at 6 GHz or 8 GHz. An output isolator provides protection against open and short circuits. The RFM-100 may be powered through the RF input connector when used in conjunction with the AT-100S transmitter. The RFM-100 may be mast mounted at the X-Band antenna input to minimize feedline losses. Packaged in a rugged aluminum housing, the single-board electronics construction guarantees long-term reliability. SMA input and output connectors are standard. The RFM Series multiplier is well suited for applications in surveillance, law enforcement, military UAV and RPV, remote broadcast, video production, and data/telemetry.

### Electrical:

- Frequency Range – RFM-100/6
  - Input – 2.1 to 2.4 GHz
  - Output – 6.4 to 7.2 GHz
- Frequency Range - RFM-100/8
  - Input – 2.7 to 2.8 GHz
  - Output – 8.2 to 8.5 GHz
- RF Power
  - Input – 10 mW
  - Output – 1 W
- Input Voltage - +10 – +15 Vdc
- Current Consumption — 1.0 A max.

### Environmental:

- Operating temperature: -10 to +65 °C
- Relative Humidity: 0 to 95%, non-condensing

### Mechanical:

- RF Input – SMA female
- Dimensions – 0.5 H x 1.6 W x 1.6 L inches
- Power Input – Pin terminal or Coaxial
- RF Output – SMA female
- Weight – 3.7 oz.
- Mounting – Four #4 clearance holes

### Options:

TEE-2 Bias Tee to remotely power unit.

### Accessories:

Interconnect Specified lengths of high quality, low-loss, interconnect coaxial cables are available.  
cables:

AIRLINX Communications, Inc.  
Box 253  
Greenville, NH 03048  
E-mail: sales@airlinx.com  
Tel: (888) 224-6814  
Fax: (603) 878-0530