

# RF AMPLIFIER

## MODEL QBS-343

Available as: QBS-343, SMA Connectorized Housing

### Features

- High Power: +48 dBm Typical
- High Gain: 41 dB Typical
- Efficient Class AB Design
- Environmental Screening Available

Spectrum Microwave can also customize this amplifier to your unique requirements in a timely manner. Customization and delivering prototypes with demanding specifications is what separates Spectrum Microwave from other power amplifier vendors.

### Specifications

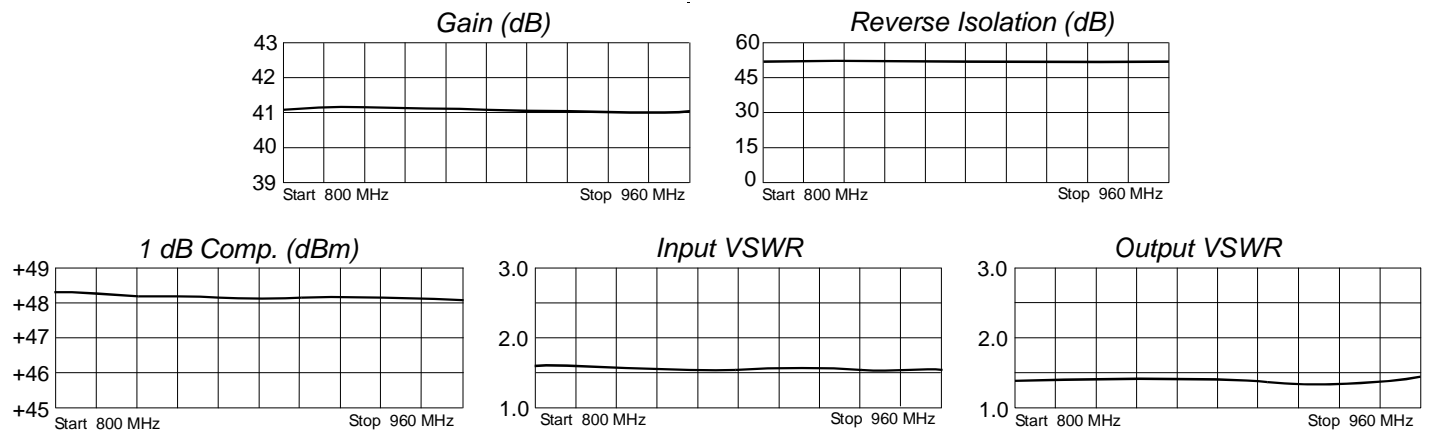
| CHARACTERISTIC           |     | TYPICAL<br>Ta= 25 °C | MIN/MAX<br>Ta = -55 °C to +85 °C |
|--------------------------|-----|----------------------|----------------------------------|
| Frequency                |     | 800- 960 MHz         | 800- 960 MHz                     |
| Gain (dB)                |     | 41                   | 39 Min.                          |
| Power @ 1 dB Comp. (dBm) |     | +48                  | +46.5 Min.                       |
| Reverse Isolation (dB)   |     | 50                   | 45 Min.                          |
| VSWR                     | In  | 1.5:1                | 2.0:1 Max.                       |
|                          | Out | 1.5:1                | 2.0:1 Max.                       |
| Power                    | Vdc | +28                  | +28                              |
|                          | m A | 6000                 | 6200 Max.                        |

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to +125 °C  
 Storage Temperature ..... -62°C to +150 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +30 Volts  
 Continuous RF Input Power ..... +13 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.

### Typical Performance Data



Legend ——— +25 °C



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