

# RF AMPLIFIER

## MODEL QBS-517

Available as: QBS-517, SMA Connectorized Housing

### Features

- High Power: +46 dBm Typical
- High Gain: 47 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 Ta= 25 °C	MIN/MAX Ta = -30 °C to +85 °C
Frequency (MHz)	900 - 1000 MHz	900 - 1000 MHz
Gain @ P1dB (dB)	47	46 Min.
P1dB (dBm)	+46	+44.5 Min.
Reverse Isolation (dB)	55	50 Min.
VSWR In Out	1.3:1 1.5:1	2.0:1 Max. 2.0:1 Max.
Power Vdc mA	+28 5000	+28 5500 Max.

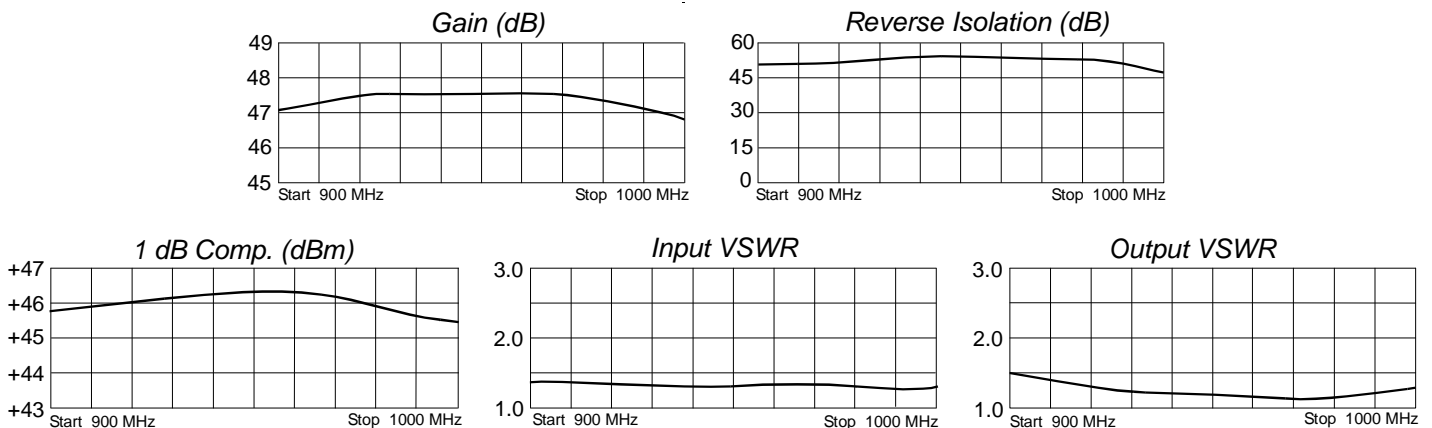
### Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -30°C to +85°C  
 Storage Temperature ..... -40°C to +100°C  
 DC Voltage ..... +30 Volts  
 Continuous RF Input Power ..... +7 dBm  
 Short Term RF Input Power ..... +10 dBm (1 Minute Max.)  
 Maximum Peak Power ..... +10 dBm (3 µsec Max.)

Note: Adequate heat transfer must be provided when operating this amplifier.

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



Legend ——— +25 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001