

# RF AMPLIFIER

## MODEL QB-963

Available as: QB-963, SMA Connectorized Housing

### Features

- High Output Power: +33.5 dBm Typical
- High Third Order Intercept: +45 dBm Typical
- High Second Order Intercept: +55 dBm Typical
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	2500- 3500 MHz	2500- 3500 MHz
Gain (dB)	32	30.5 Min.
Power @ 1 dB Comp. (dBm)	+33.5	+32 Min.
Reverse Isolation (dB)	43	38 Min.
VSWR In	1.5:1	2.0:1 Max.
Out	2.0:1	2.5:1 Max.
Noise Figure (dB)	3.5	5.0 Max.
Power Vdc	+15	+15
m A	700	900 Max.

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

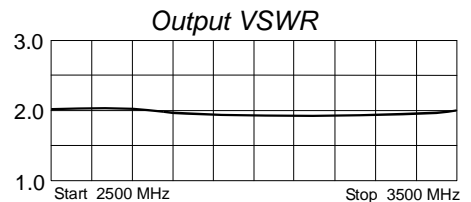
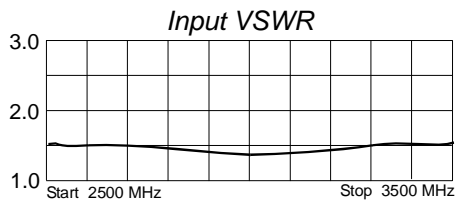
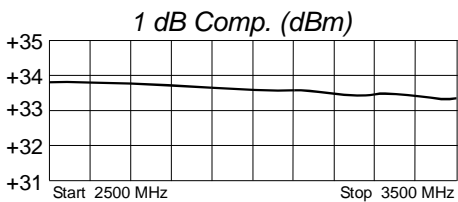
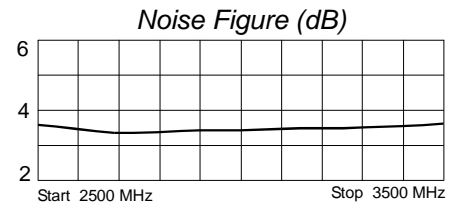
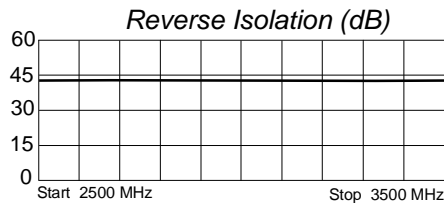
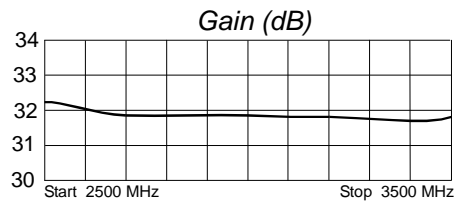
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+60 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+55 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+45 dBm (Typ.)

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to +125 °C  
 Storage Temperature ..... -62°C to +150 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +18 Volts  
 Continuous RF Input Power ..... +13 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 sec Max.)

### 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

Rev.  
7/15/10

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