

# RF AMPLIFIER

## MODEL QBS-204

Available as: QBS-204, SMA Connectorized Housing

### Features

- High Output Power: +39 dBm Typical
- High Third Order Intercept: +50 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	3700 - 4200 MHz	3700 - 4200 MHz
Gain (dB)	27	26.5 Min.
Power @ 1 dB Comp. (dBm)	+39	+37.5 Min.
Reverse Isolation (dB)	40	35 Min.
VSWR In	2.0:1	2.5:1 Max.
Out	2.0:1	2.5:1 Max.
Noise Figure (dB)	8.0	9.0 Max.
Power Vdc	+15	+15
m A	3000	3200 Max.

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

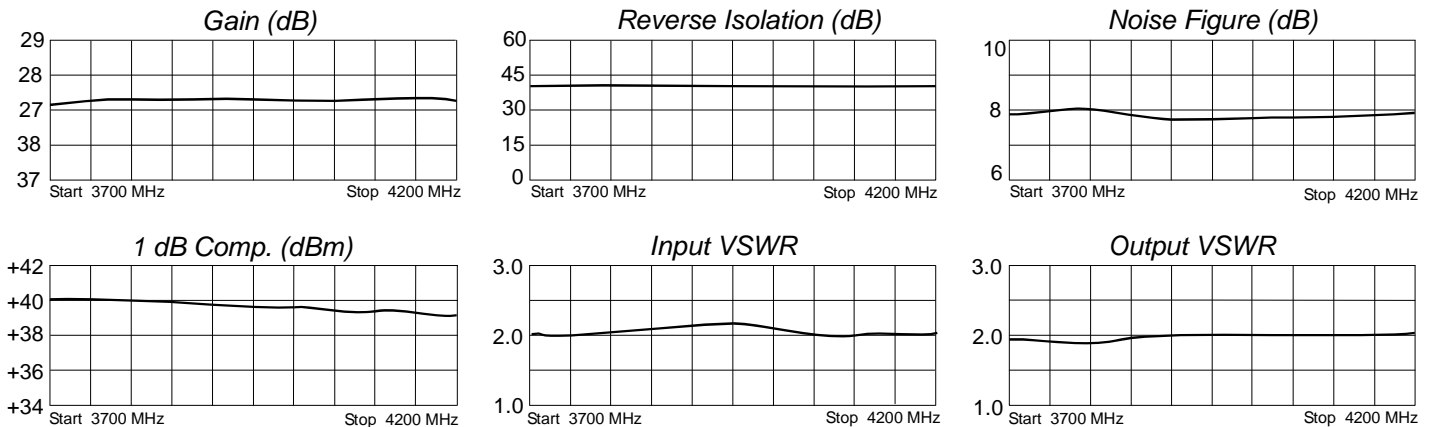
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+61 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+55 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+50 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 µsec Max.)

### Typical Performance Data



Legend ——— +25 °C



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