

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.

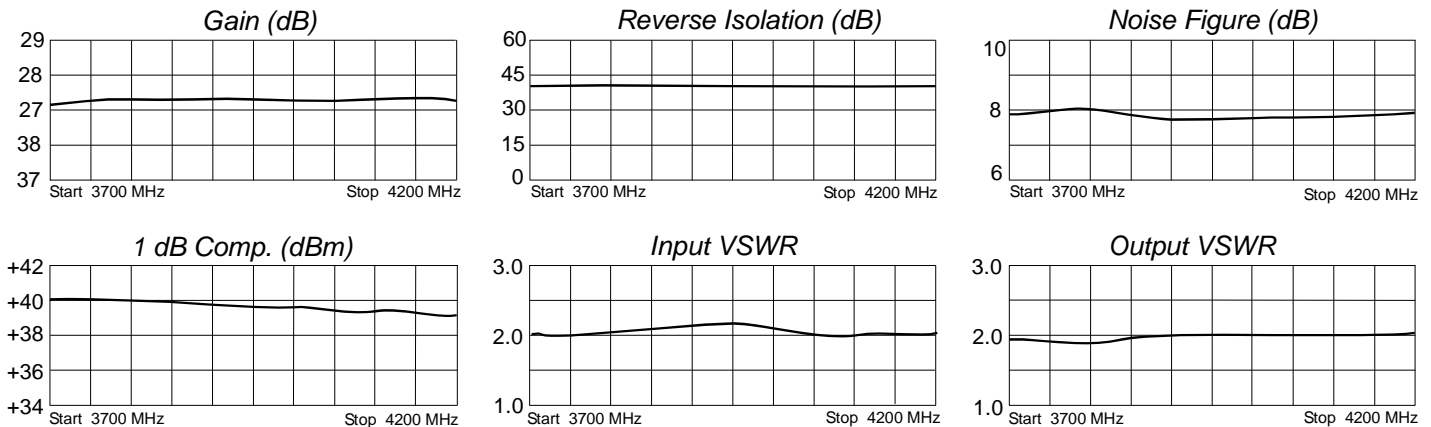
Typical Intermodulation Performance at 25 °C

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



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

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