

RF AMPLIFIER

MODEL QBS-229

Available as: QBS-229, SMA Connectorized Housing

Features

- High Output Power: +41 dBm Typical
- High Third Order Intercept: +52 dBm Typical
- High Second Order Intercept: +60 dBm Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	1800 - 2000 MHz	1800 - 2000 MHz
Gain (dB)	41	39 Min.
Power @ 1 dB Comp. (dBm)	+41	+39 Min.
Reverse Isolation (dB)	51	45 Min.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	7.0	7.5 Max.
Power Vdc	+15	+15
m A	2700	3000 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.....+65 dBm (Typ.)

Second Order Two Tone Intercept Point.....+60 dBm (Typ.)

Third Order Two Tone Intercept Point.....+52 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to +125 °C

Storage Temperature -62°C to +150 °C

Case Temperature +125 °C

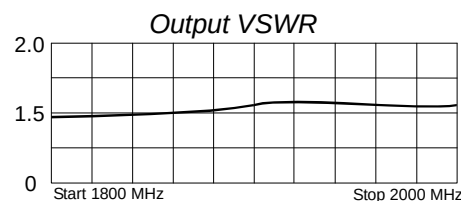
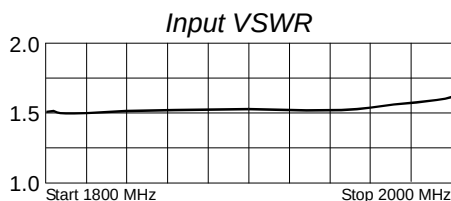
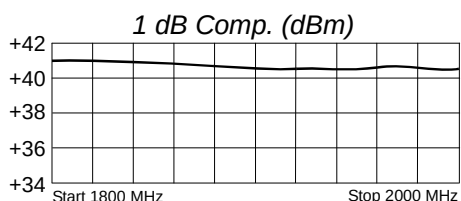
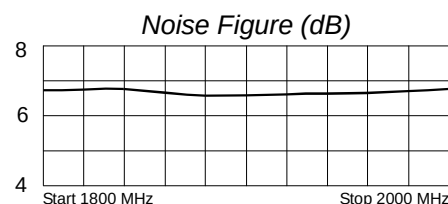
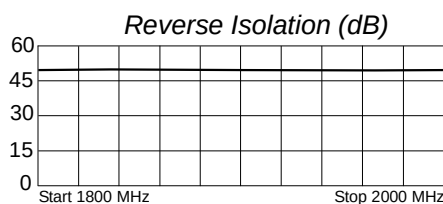
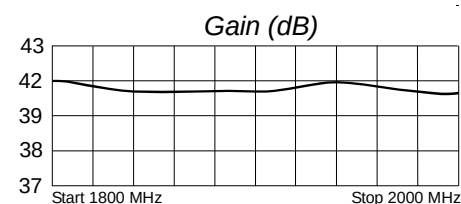
DC Voltage +18 Volts

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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