

STANDARD RF AMPLIFIER

Available as: RN9429**, 4 Pin 0.525" Sq. Surface Mount (SM19)
 BR9429, SMA Connectorized Housing (H2L)
 BXP9429, SMA Connectorized Housing (HPak)

MODEL RN9429

Features

- Low Noise Figure: 2.9 dB Typical
- Output Power: +26 dBm Typical
- Wide 200 - 4200 MHz Bandwidth (Typical)

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +50 dBm (Typ.)
 Second Order Two Tone Intercept Point +45 dBm (Typ.)
 Third Order Two Tone Intercept Point +35 dBm (Typ.)

(Typical @ 1 GHz Measurement at 25 °C)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	200 - 4200 MHz	200 - 4000 MHz
Gain	25 dB	23.0 dB Min.
Gain Flatness	+/- 0.6 dB	+/- 1.0 dB Max.
Noise Figure	2.9 dB	3.5 dB Max.
VSWR	In 1.7:1 Out** 1.7:1	2.0:1 Max. 2.0:1 Max.
Power Output @1 dB Comp.*	+26.0 dBm	+24.0 dBm Min.
Reverse Isolation	-40 dB	-
Power	Vdc +15 mA 250	+15 255 Max.

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °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.)

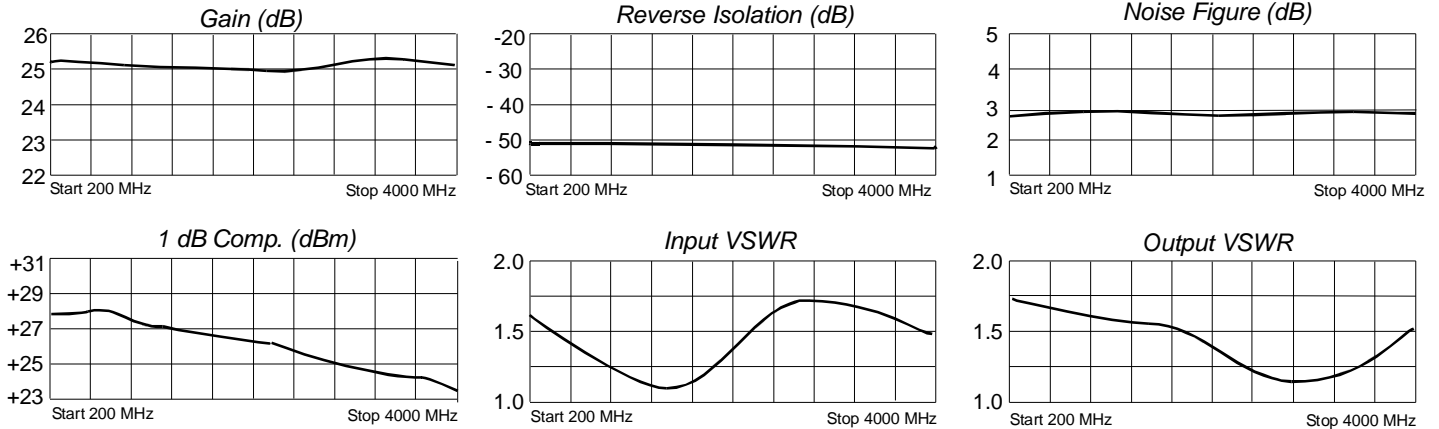
Note: Care should always be taken to effectively ground the case of each unit.

*P1dB is 1.0 dB lower above 3000 MHz.

** Output VSWR 2.5:1 Max above 3000 MHz for Surface Mount version only and typical P1dB measurement taken at 1 GHz.

Revision 10/24/2013

Typical Performance Data



Legend ——— + 25 °C



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