

RF AMPLIFIER

MODEL TN9421

Available as: TN9421, 4 Pin .450" Sq. Surface Mount (SM3)
 BX9421, SMA Connectorized Housing (H1L-Laser)
 BXP9421, SMA Connectorized Housing (HPak)

Features

- Wide Bandwidth 950-4200 MHz
- Low Noise Figure: 1.8 dB Typical
- Cross to the Cougar AS4221, our Model TN9421
- Cross to the Cougar ACP4221, our Model BXP9421
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	950 - 4200 MHz	950 - 4200 MHz
Gain	13.0 dB	11.5 dB Min.
Gain Flatness	+/- 0.5 dB	+/- 1.0 Max.
Noise Figure	1.8 dB	2.7 dB Max.
VSWR In	1.7:1	2.0:1 Max.
VSWR Out	1.7:1	2.0:1 Max.
Power Output @ 1 dB Comp.	+14.0 dBm	+12.5 dBm Min.
Reverse Isolation	23 dB	—
Power Vdc	+15	+15
mA	40	46 Max.

Typical Intermodulation Performance at 25 °C*

Second Order Harmonic Intercept Point..... +48 dBm (Typ.)
 Second Order Two Tone Intercept Point..... +42 dBm (Typ.)
 Third Order Two Tone Intercept Point..... +26 dBm (Typ.)

*Typical @ 25 °C

Absolute Maximum (No Damage) Ratings

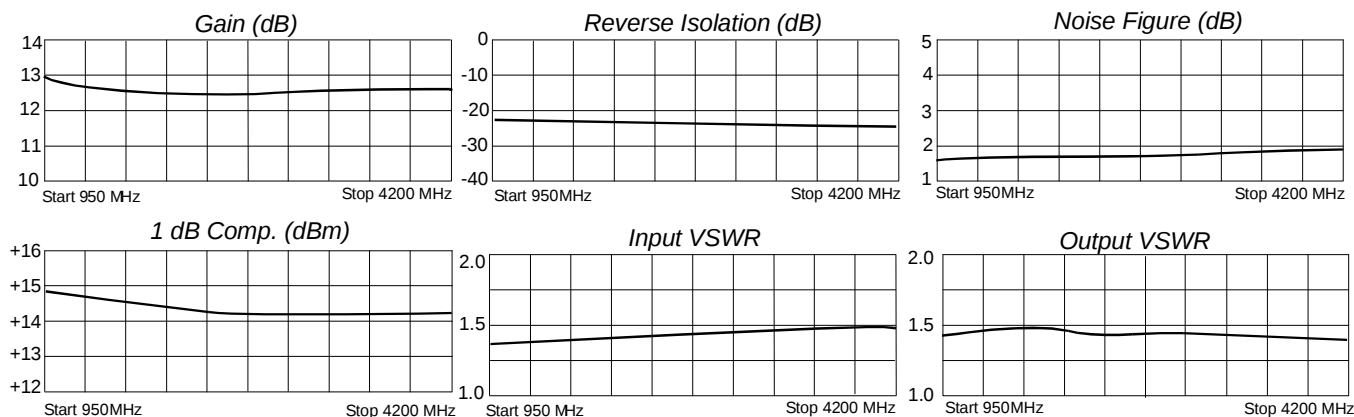
Ambient Operating Temperature..... -55°C to +100 °C
 Storage Temperature..... -62°C to +125 °C
 DC Voltage +20 Volts
 Continuous RF Input Power..... +7.5 dBm
 Short Term RF Input Power..... +10 dBm (1 Minute Max.)
 Maximum Peak Power..... +13 dBm (3µsec Max.)

Note: Measured in a 50 ohm system at +15 volts DC.

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

Revision 5/14/2012

Typical Performance Data



Legend ——— +25 °C - - - +85 °C -55 °C



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

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



A



A

DO NOT SCALE DRAWING