

Description

This is a low-noise amplifier, operating in the bandwidth 3.4 to 4.8 GHz.



Features

- Gain Matched to $\pm 0.35\text{dB}$
- Phase Matched to $\pm 3^\circ$
- Noise Figure $\leq 0.8\text{ dB}$
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable 3.5mm SMA connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- Operating Temp. -55 C to +85 C
- 3 Year Warranty and Lifetime Support

Options

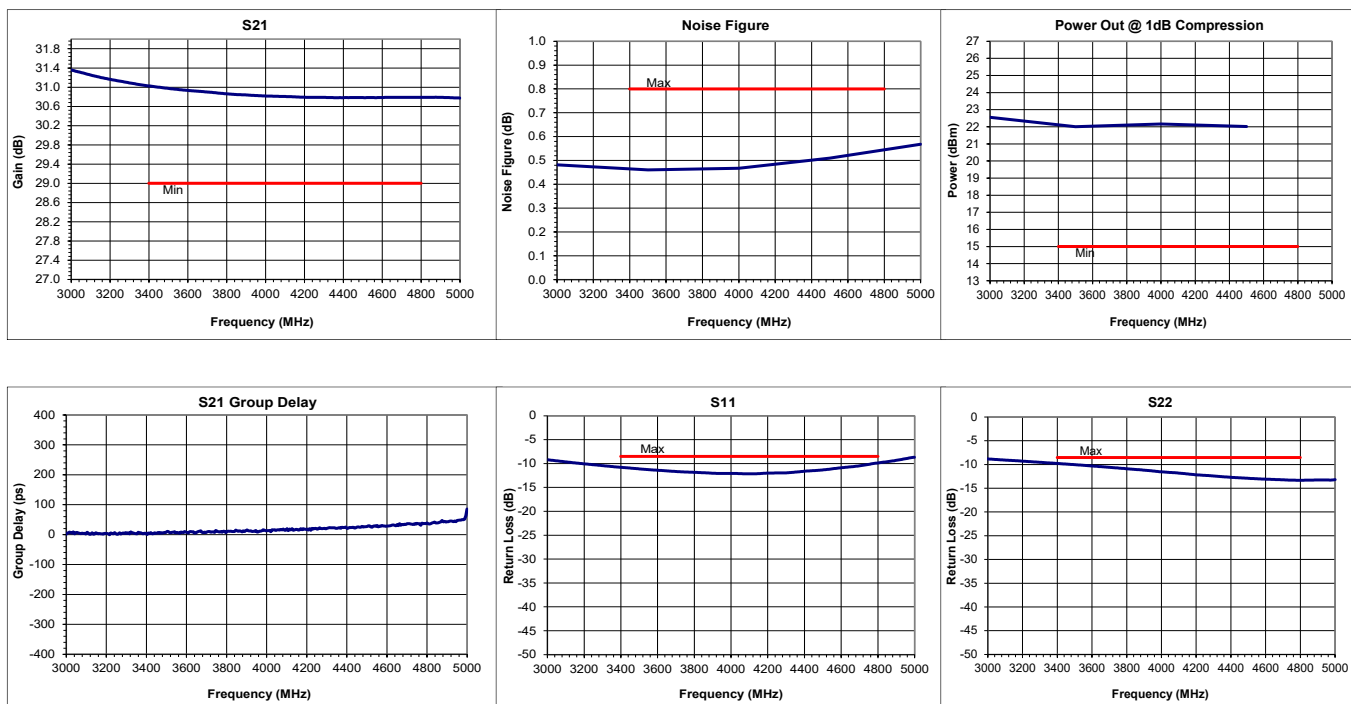
- Optimized Performance over Selected Bandwidth
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Reverse Polarity Protection
- Male or Female Connectors
- Mounted on Heatsink
- Limiting Diode for Higher Input Power Tolerance

Specifications (23 °C)

Parameter	Min	Typ	Max	Units
Frequency Range	3.4	-	4.8	GHz
Noise Figure*	-	-	0.8	dB
Gain	20	-	35	dB
Gain Flatness (+/-)	-	-	± 0.4	dB
P1 Output Power	+15	-	-	dBm
Input VSWR	-	-	2.0:1	
Output VSWR	-	-	2.0:1	
Operating Temperature	-55	-	+85	°C
Non-Operating Temp Range	-65	-	+85	°C
RF Input Power (no-damage)	-	-	+13	dBm
Humidity (non-condensing)	-	-	95	%
Voltage	12	-	15	VDC
Current	-	165	-	mA
Input Impedance	50			Ohms
RF Connector	3.5mm SMA - Female			
Dimensions	29.9x18.7x7.6			mm
Outline	100114			

* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C.

NF Uncertainty (approx. 0.1dB). 0.05 dB due to ENR of HP 346C; and 0.05 dB, due to the gain modulation of the unit, caused by the HP 346C source impedance change in the ON and OFF state.



S/N. 30431
Date 1/23/2026

807-0008