

Description

This is a low-noise amplifier,
operating in the bandwidth 1.0 to 18 GHz.

Features

- Noise Figure ≤ 2.3 dB
 - Limiting Diode Protection against moderate ESD
 - Mounted on Heatsink
 - AC coupled at input and output
 - 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
- **Optimized Performance over Selected Bandwidth**
 - Hermetically Sealed Package
 - Reverse Polarity Protection
 - Gain and Phase matching
 - Male or Female Connectors



Specifications (23 °C)

Parameter	Min	Typ	Max	Units
Frequency Range	1	-	18	GHz
Noise Figure*	-	-	2.3	dB
Gain	50	-	-	dB
Gain Flatness (+/-)	-	-	±2.8	dB
P1 Output Power	+10	-	-	dBm
Input VSWR	-	-	2.3:1	
Output VSWR	-	-	2.3:1	
Operating Temperature	-55	-	+85	°C
Non-Operating Temp Range	-65	-	+85	°C
RF Input Power (no-damage)	-	-	+20	dBm
Humidity (non-condensing)	-	-	95	%
Voltage	12	-	15	VDC
Current	-	275	-	mA
Input Impedance	50			Ohms
RF Connector	3.5mm SMA - Female			
Dimensions	42.9x22.8x19.7			mm
Outline	100171			

* 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.

