

## Low Noise Amplifier 0.6GHz ~ 1.4GHz



### Features

- Gain: 32dB Typical •  
Noise Figure: 0.9dB Typical •  
P1dB Output Power: +21.5dBm Typical
- Supply Voltage: +5V @ 260mA •  
50 Ohm Matched Input / Output
- Size: 0.98" x 0.98" x 0.39"

### Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace •  
Test Instrument
- Fiber Optics

### Electrical Specifications, $T_A = +25^\circ\text{C}$ , $V_{CC} = +5\text{V}$

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.6		1	1		1.4	GHz
Gain	28	32		26	29		dB
Gain Flatness		±1.5			±1.5		dB
Gain Variation Over Temperature (-45 ~ +85)		±0.8			±0.8		dB
Noise Figure		0.8	1.3		0.9	1.2	dB
Input VSWR		1.6			1.4		: 1
Output VSWR		1.9			1.8		: 1
Output 1dB Compression Point (P1dB)	19	21.5		19	21.5		dBm
Saturated Output Power (Psat)		23			23		dBm
Output Third Order Intercept (IP3)		37			37		dBm
Supply Current (I <sub>dd</sub> ) (V <sub>CC</sub> =+5V)		260	300		260	300	mA
Isolation S <sub>12</sub>		-42			-40		dB
Weight	1.41						ounces
Impedance	50						Ohms
Input / Output Connectors	SMA-Female						
Finishing	Standard: Gold 40 micron; Nickel 220 micron thickness						
	Option: Gold 80 micron; Nickel 180 micron thickness						
Material	Aluminum						
Package Sealing	Epoxy Sealing (Standard)						
	Hermetically Sealed (Option with extra charge)						