

## Ultra Low Noise Amplifier 50MHz~500MHz



### Features

- Gain: 50dB Typical
- Noise Figure: 0.6dB Typical
- P1dB Output Power: +22dBm Typical
- Supply Voltage: +15V /220mA
- 50 Ohm Matched

### Typical Applications

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

### Electrical Specifications, TA = +25°C, Vcc = +15V

Parameter	Min.	Typ.	Max.	Units
Frequency Range	50		500	MHz
Gain	45	50		dB
Gain Flatness		±1.5	±3.0	dB
Gain Variation Over Temperature (-45 ~ +85)		±0.5		dB
Noise Figure	0.45	0.6	0.8	dB
Input VSWR		1.5	2.0	:1
Output VSWR		2.0	2.5	:1
Output 1dB Compression Point (P1dB)	20	22		dBm
Saturated Output Power (Psat)		24		dBm
Output Third Order Intercept (IP3)		32		dBm
Supply Current (Vcc=+15V)		220	250	mA
Isolation S12		-55		dB
Weight	1.06			Ounces
Impedance	50			Ohms
Input / Output Connectors	SMA-Female			
Finish	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 (Optional)			