

Ultra Wide Band Low Phase Noise Amplifier 1GH ~20GHz

Z



Features

- Gain: 35 dB Typical • Noise Figure: 5dB Typical • P1dB Output Power: +14dB m Typical
- Supply Voltage: +12V
- 50 Ohm Matched Input / Output

Typical Applications

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

Electrical Specifications, TA = +25°C, Vcc = +12V

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	1		2	2		18	18		20	GHz
Gain	28	35			33	36		30	34	dB
Gain Flatness		±3.0	±4.0		±2.0	±2.5		±1.5	±2.0	dB
Gain Variation Over Temperature (-45 ~ +85)		±1.5			±2.0			±2.0		dB
Noise Figure		10			5			9		dB
Input VSWR		2			1.5	2		1.5	2	:1
Output VSWR		2			1.5	2		1.5	2	:1
Output 1dB Compression Point (P1dB)	12	14		10	15		5	7		dBm
Saturated Output Power (Psat)		15			17			8		dBm
Output Third Order Intercept (IP3)		26			28			16		dBm
Phase Noise @ 1 kHz		-150			-150			-150		dBc/Hz
Isolation S12		-55			-55			-55		dB
Supply Current (Vcc=+12V)		190	220		190	220		190	220	mA
Weight	3.55									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	copper									
Package Sealing	Epoxy Sealing (Standard)									
	Hermetically Sealed (Option with extra charge)									