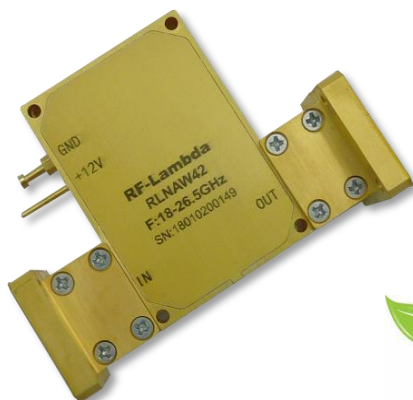


WR42 Low Noise Amplifier 18GHz ~ 26.5GHz



Features

- Gain: 60dB Typical
- Noise Figure: 2.5dB Typical
- P1dB Output Power: +15dBm Typical
- Supply Voltage: +12V

Typical Applications

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

Electrical Specifications, $T_A = +25\text{ }^\circ\text{C}$, $V_{CC} = +12\text{V}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	18		26.5	GHz
Gain	50	60		dB
Gain Flatness		± 2.5		dB
Gain Variation Over Temperature(-45 ~ +85)		± 3.0		dB
Noise Figure		2.5	3.5	dB
Input VSWR		2.3		:1
Output VSWR		2.5		:1
Output Power for 1 dB Compression (P1dB)	12	16		dBm
Saturated Output Power (Psat)		18		dBm
Output Third Order Intercept (IP3)		26		dBm
Isolation S12		-70		dB
Supply Current (Vcc=+12V)		260	350	mA
Weight		2.12		ounces
Impedance		50		Ohms
Input / Output Connectors	WR42			
Finish	Standard: Gold 40 micron; Nickel 220 micron thickness			
	Option: Gold 80 micron; Nickel 180 micron thickness			
Material	copper			
Package Sealing	Epoxy Sealed			