

Jersey Microwave

VHF/UHF LOW NOISE AMPLIFIER

Features

- ✓ High Dynamic Range
- ✓ Low Noise Figure
- ✓ High reliability
- ✓ Low cost

Options

- Input Coupler (20 dB / 30 dB)
- Gain Control (15 dB Range / 1 dB Step)
- Extended Operating Temperature



Description

Jersey Microwave's VHF/UHF Low Noise Amplifier operates over an extended bandwidth, providing high gain with a low noise figure. Specifications are also given for segments of the unit's bandwidth that may be of interest. Jersey Microwave components can be tailored to meet your company's specific needs.

Specifications

Parameter	Limits		
Operating Frequency Band	100-280 MHz	380-520 MHz	100-600 MHz
Gain	40 dB Min.	38 dB Min.	37 dB Min.
Gain Flatness	± 0.5 dB Max.	± 0.5 dB Max.	± 1.0 dB Max.
Po(1dB)	+ 30 dBm Min.	+30 dBm Min.	+29 dBm Min.
IP3	+ 47 dBm Typ./ +45 dBm Min.	+ 47 dBm Typ./ + 45 dBm Min.	+ 45 dBm Typ./ + 43 dBm Min.
Noise Figure	1.3 dB Typ./ 1.5 dB Max.	1.5 dB Typ./ 1.7 dB Max.	1.6 dB Typ./ 1.8 dB Max.
VSWR (50 ohm impedance)	Input: 1.5:1 Max. Output: 1.8:1 Max.	Input: 1.5:1 Max. Output: 1.8:1 Max.	Input: 1.8:1 Max. Output: 1.8:1 Max.
In-Band Spurious	-70 dBc Max.		
Harmonics	-20 dBc Max.		
Alarm	Current (TTL) Form "C" Relay Output "L" : Normal / "H" : Fault NO = Normal / Alarm = NC		
Monitoring	Current Monitor Scale Current Monitor Level 1 mV / mA Typical 950 mV ± 50 mV		
Operating Temperature	-30° to +60°C		
DC Supply	+15V @ 950 mA Max.		
Size (without connectors)	4.5" x 3.9" x 0.85"		

Note: Specifications are subject to change without notice