

# Broadband Limiting Amplifier

**Frequency Range: 8-12 GHz**



## Features

- Reverse Bias Protection
- Input Voltage Regulator
- Laser Sealed Housing
- Allows for Input Levels from -20 dBm to -10 dBm
- Flat Saturated Output Power (+10 dBm)

The Model BXL9812 is standard high frequency limiting amplifier covering 8 GHz to 12 GHz. This two stage design, utilizes an input voltage regulator to protect against fluctuations in supply voltage, reverse bias protection circuitry, and a laser sealed housing for the ultimate in environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version as a model SXL9812. All specification ratings are based on measurements in a 50 ohm system with a DC supply voltage tolerance of +/- 2%.

## Technical Specifications

Parameter	Unit	Typical	Min/Max
Frequency Range	GHz	8 – 12	8 – 12
Input Power	dBm		-20 Min / -10 Max
Flatness (+/-)	dB	1.0	1.5 Max
Psat	dBm	10	8 Min / 11 Max
Input VSWR	-	1.8:1	2.0:1 Max
Output VSWR	-	1.8:1	2.0:1 Max
Noise Figure	dB	5.0	6.0 Max
Supply Voltage	volts	+12 to +15	+12 to +15
Supply Current	mA	165	175 Max

## Maximum (No Damage) Ratings

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Storage Temperature	-65°C to +125°C
Operating Temperature	-40°C to +85°C
DC Voltage @ 25°C (Regulated)	+17 VDC
Input Drive @ 25°C (CW)	+20 dBm

## Mechanical & Electrical

Parameter	Specification
Housing Size	1.15" L x 1.75" W x 0.70" H
RF Connectors	Gold Plated Pins or SMA Female

\* Typical values are measured at 25°C, but not guaranteed.