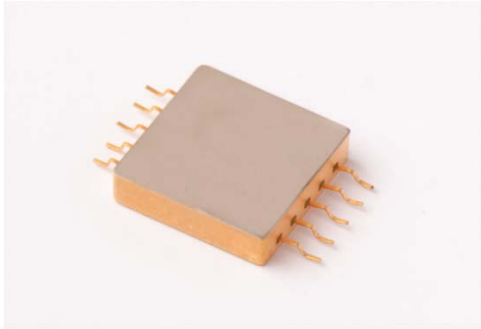


Standard RF Amplifier

Frequency Range: 1 to 200 MHz



Features

- High Output Power: +27.5 dBm
- High IP2: +60 dBm
- Low Frequency Operation
- Unconditionally Stable

Model WN3119 is a low frequency amplifier covering 1 to 200 MHz. This design utilizes a hermetic gullwing surface-mount package for superior environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version (Model #SWN3119) All specification ratings are based on measurements in a 50 Ω (ohm) system with a DC supply voltage tolerance of +/- 2%.

Technical Specifications

Parameter	Unit	Typical	Min/Max
Frequency Range	MHz	1 to 200 MHz	1 to 200 MHz
Gain	dB	10.5	9.0 Min.
Gain Flatness	dB	+/- 1.0	---
Noise Figure	dB	5.5	7.0 Max.
Output Power @ 1 dB Compression	dBm	27.5	26 Min.
Output 3 rd Order Intercept	dBm	42	---
Output 2 nd Order Intercept	dBm	60	---
Reverse Isolation	dB	17	---
Input VSWR	---	1.25:1	2.0:1 Max.
Output VSWR	---	1.35:1	2.0:1 Max.
Supply Voltage	volts	+15	+15
Supply Current	mA	200	210 Max.

- Typical values are measured at 25°C, but not guaranteed
- IP3 and IP2 values are tested at 30 MHz at 25C.

Absolute Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-62°C to +150°C
Operating Temperature	-55°C to +85°C
DC Voltage @ 25°C	+18 volts
Input Drive @ 25°C (CW)	+18 dBm

Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	-55°C to +85°C
Package Size	0.625" Square
Package Drawing	SG4
RF Connectors	10 Pins