



W-Band Power Amplifier, 90 to 95 GHz, 11 dB Gain, +24 dBm P_{1dB}

Description:

Model SBP-9039531124-1010-E1 is a GaN based power amplifier with a typical small signal gain of 11 dB and a nominal P_{1dB} of +24 dBm across the frequency range of 90 to 95 GHz. The DC power requirement for the amplifier is +15 V_{DC}/260 mA. The mechanical configuration offers an inline structure with WR-10 waveguides and UG-387/U-M anti-cocking flanges. Other port configurations, such as a right angle structure with WR-10 waveguides or 1 mm connectors, are also available under different model numbers.



Features:

- High Output Power
- High Power Added Efficiency (PAE)

Applications:

- Test Instrumentation
- Communication Systems
- Radar Systems

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	90 GHz		95 GHz
Gain		11 dB	
P _{1dB}		+24 dBm	
P _{Sat}		+27 dBm	
P _{in}			+20 dBm
Input Return Loss		6 dB	
Output Return Loss		6 dB	
DC Voltage	+13 V _{DC}	+15 V _{DC}	+18 V _{DC}
DC Supply Current		260 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification
Input Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Output Port	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	1.6 Oz
Size	1.10" (W) X 1.50" (L) X 0.75" (H)
Outline	BG-SW-2-A

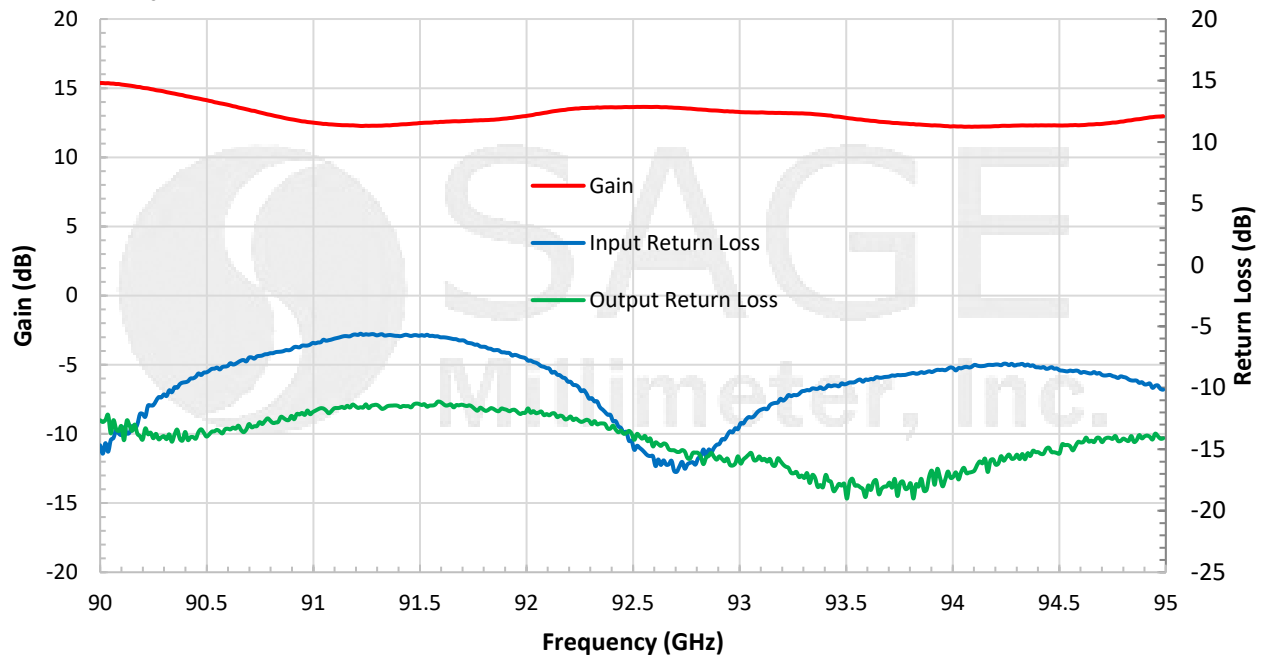




W-Band Power Amplifier, 90 to 95 GHz, 11 dB Gain, +24 dBm P_{1dB}

Gain and Return Loss vs. Frequency

Bias: +15 V_{DC}/260 mA



Typical P_{1dB} vs. Frequency

Bias: +15 V_{DC}/260 mA

