SBP-5037533020-1515-E1

V-Band Power Amplifier, 50 to 75 GHz, 30 dB Gain, +20 dBm P_{1dB}

Description:

Model SBP-5037533020-1515-E1 is a power amplifier with a typical small signal gain of 30 dB and a nominal P_{1dB} of +20 dBm across the frequency range of 50 to 75 GHz. The DC power requirement for the amplifier is +8 V_{DC}/800 mA. The mechanical configuration offers an in line structure with WR-15 waveguides and UG-385/U anti-cocking flanges. Other port configurations, such as with 1 mm connectors or a right angle



structure with WR-15 waveguides, are also available under different model numbers.

Features:

- Broadband Performance
- High Output Power
- High Gain and Good Gain Flatness

Electrical Specifications:

- IEEE 802.11ab WiGig
- 5G Systems

Applications:

• Test Equipment

Parameter	Minimum	Typical	Maximum
Frequency	50 GHz		75 GHz
Gain		30 dB	
P _{1dB}		+20 dBm	
P _{SAT}		+22 dBm	
P _{in}			+15 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+12 V _{DC}
DC Supply Current		800 mA	
Specification Temperature		+25 °C	
Operating Temperature	0°C		+50 °C

Mechanical Specifications:

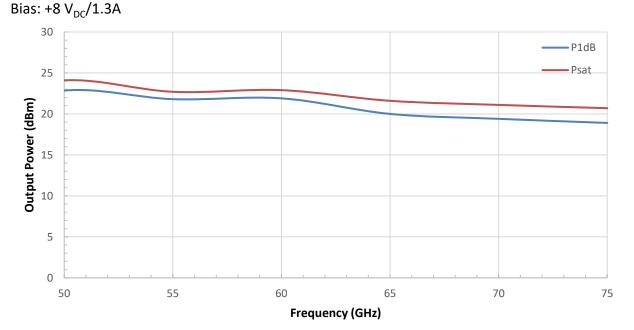
ltem	Specification		
Input Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange		
Output Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange		
Bias	Solder Pin		
Case Material	Aluminum		
Finish	Gold Plated		
Weight	1.6 Oz		
Size	1.10" (W) X 1.50" (L) X 0.75" (H)		
Outline	BG-SV-2-A		

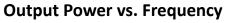


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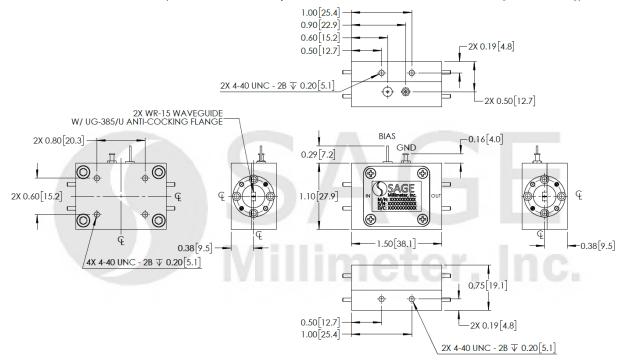
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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])





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V-Band Power Amplifier, 50 to 75 GHz, 30 dB Gain, +20 dBm P_{1dB}

Note:

- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- The device is static sensitive. Always follow ESD rules when working with the device.
- The case temperature of the device shall never exceed +50 °C. Use proper heatsink or fan if necessary.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.





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