SBB-0114033218-2F2F-E3-WP

Broadband Amplifier, 0.01 to 40 GHz, 32 dB Gain, +18 dBm P_{1dB}, 6.0 dB NF

Description:

Model SBB-0114033218-2F2F-E3-WP is a broadband amplifier with a typical small signal gain of 32 dB, a nominal P_{1dB} of +18 dBm, and a typical noise figure of 6.0. dB across the frequency range of 0.01 to 40 GHz. The DC power requirement for the amplifier is +12 V_{DC} at 450 mA. The use of a heat sink is advised to assist in cooling the device. The RF connectors are female 2.4 mm connectors. Other port configurations are available under different model numbers.

Features:

- Broadband Coverage
- Good Gain Flatness



Applications:

- RF Microwave & VSAT
- Wireless Infrastructure
- Test Equipment

Electrical Specifications:

Parameter	Minimum	Typical	Maximum	
Frequency	0.01 GHz		40 GHz	
Gain		32 dB		
P _{1dB}		+18 dBm		
P _{sat}		+19 dBm		
Noise Figure		6.0 dB		
Input Max Power (No Damage)			0 dBm	
Input Return Loss		10 dB		
Output Return Loss		10 dB		
DC Voltage		+12 V _{DC}		
DC Supply Current		450 mA	500 mA	
Specification Temperature		+25 °C		
Operating Temperature	0°C		+50 °C	

Mechanical Specifications:

Item	Specification		
Input	2.4 mm (F)		
Output	2.4 mm (F)		
Bias	Solder Pin	ľ.,	
Case Material	Aluminum	7	
Finish	Gold Plated		
Weight	1.06 Oz]	
Size	1.38" (L) x 1.58" (W) x 0.47" (H)]	
Outline	BG-ZC-1]	



www.eravant.com |501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com

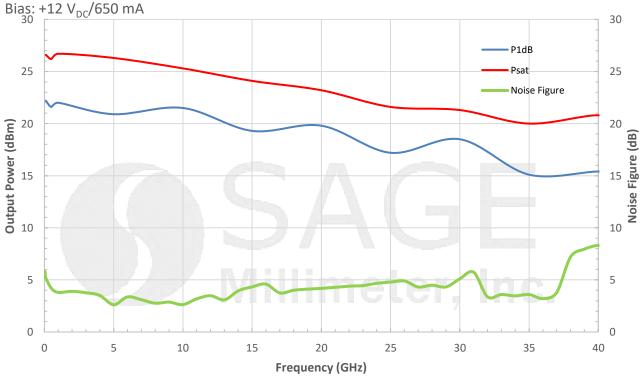


SBB-0114033218-2F2F-E3-WP

Broadband Amplifier, 0.01 to 40 GHz, 32 dB Gain, +18 dBm P_{1dB}, 6.0 dB NF

Bias: +12 V_{DC}/450 mA 40 40 30 30 Gain 20 20 Input Return Loss 10 10 Return Loss (dB) Output Return Loss Gain (dB) 0 0 -10 -10 -20 -20 -30 -30 -40 -40 0 5 10 15 20 25 30 35 40 Frequency (GHz)





Typical Performance vs. Frequency

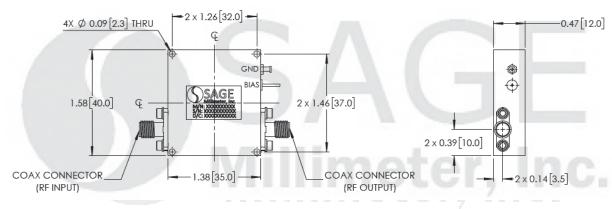
RoHS

www.eravant.com | 501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com Rev. 1.0

SBB-0114033218-2F2F-E3-WP

Broadband Amplifier, 0.01 to 40 GHz, 32 dB Gain, +18 dBm P_{1dB}, 6.0 dB NF

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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- 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.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. Eravant torque wrench, model SCH-08008-S1, is highly recommended.





www.eravant.com |501 Amapola Avenue, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com

