SBB-0524034018-KFKF-E3-WPC

Broadband Amplifier, 0.5 to 40 GHz, 40 dB Gain, +18 dBm P_{1dB}

Description:

Model SBB-0524034018-KFKF-E3-WPC is a broadband amplifier with a typical small signal gain of 40 dB, a nominal P_{1dB} of +18 dBm, and a typical noise figure of 6.5 dB across the frequency range of 0.5 to 40 GHz. The DC power requirement for the amplifier is +12 V_{DC}/350 mA. The use of a heat sink is advised to assist in cooling the device. The RF connectors are female 2.92 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	0.5 GHz		40 GHz
Gain		40 dB	
P _{1dB}		+18 dBm	
P _{sat}		+19 dBm	
Noise Figure		6.5 dB	
P _{in}			-15 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage		+12 V _{DC}	+15 V _{DC}
DC Supply Current		350 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

ltem	Specification	9
Input	2.92 mm (F)	
Output	2.92 mm (F)	
Bias	Solder Pin	
Case Material	Brass	
Finish	Gold Plated	
Weight	3.2 Oz	
Size	1.38" (L) x 1.58" (W) x 0.47" (H)	1
Outline	BG-ZC-3	1

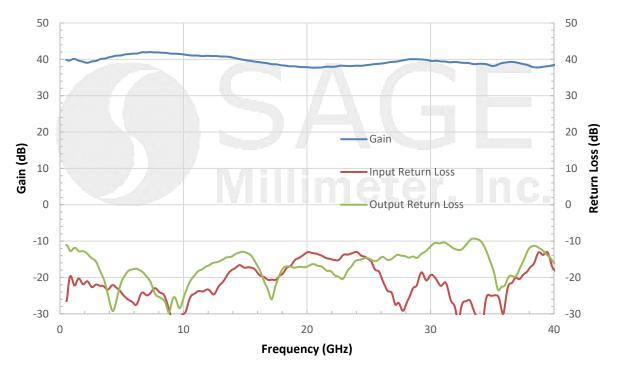


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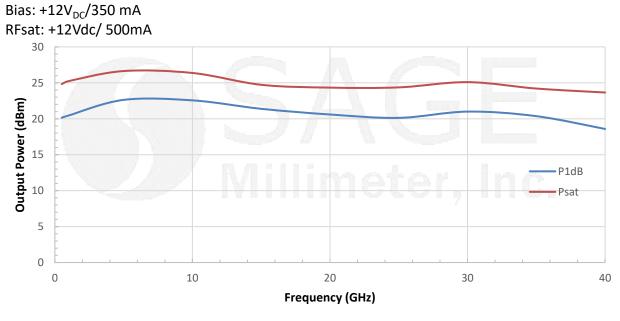
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Typical Gain and Return Loss vs. Frequency

Bias: +12 V_{DC}/350 mA



Typical Output Power vs. Frequency





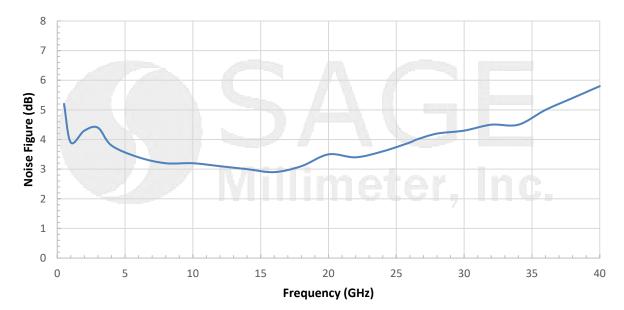


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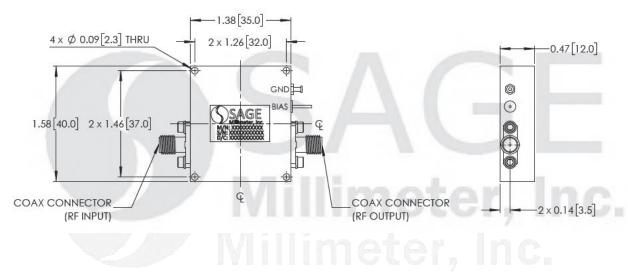
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Typical Noise Figure vs. Frequency

Bias: +12 V_{DC}/350 mA



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







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Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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.





