SBB-1834033525-KFKF-E3

Broadband Amplifier, 18 to 40 GHz, 35 dB Gain, +24 dBm P1dB

SBB-1834033525-KFKF-E3 is a a broadband power amplifier with a typical small signal gain of 35 dB, a nominal P1dB of +24 dBm, and a typical noise figure of 5.5 dB across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +12 VDC/550 mA. The use of a heat sink is advised to assist in cooling the device. The RF connectors are female 2.92 mm (K) connectors. Other port configurations are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		40 GHz
Gain	30 dB	35 dB	
P_{1dB}		+24 dBm	
P_{Sat}		+25 dBm	
Noise Figure		5.5 dB	
P_{in}			0 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage	+9 V_{DC}	+12 V_{DC}	+15 V_{DC}
DC Supply Current		550 mA	900 mA
Specification Temperature		+25°C	
Operating Temperature	-40°C		+50°C

Mechanical Specifications:

Item	Specification
RF Ports	K (F)
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	7.1 Oz
Size	1.58” (L) x 1.38” (W) x 0.47” (H)
Outline	BG-ZC-4

ECCN

EAR99

FEATURES

- Broadband Coverage
- Good Gain Flatness

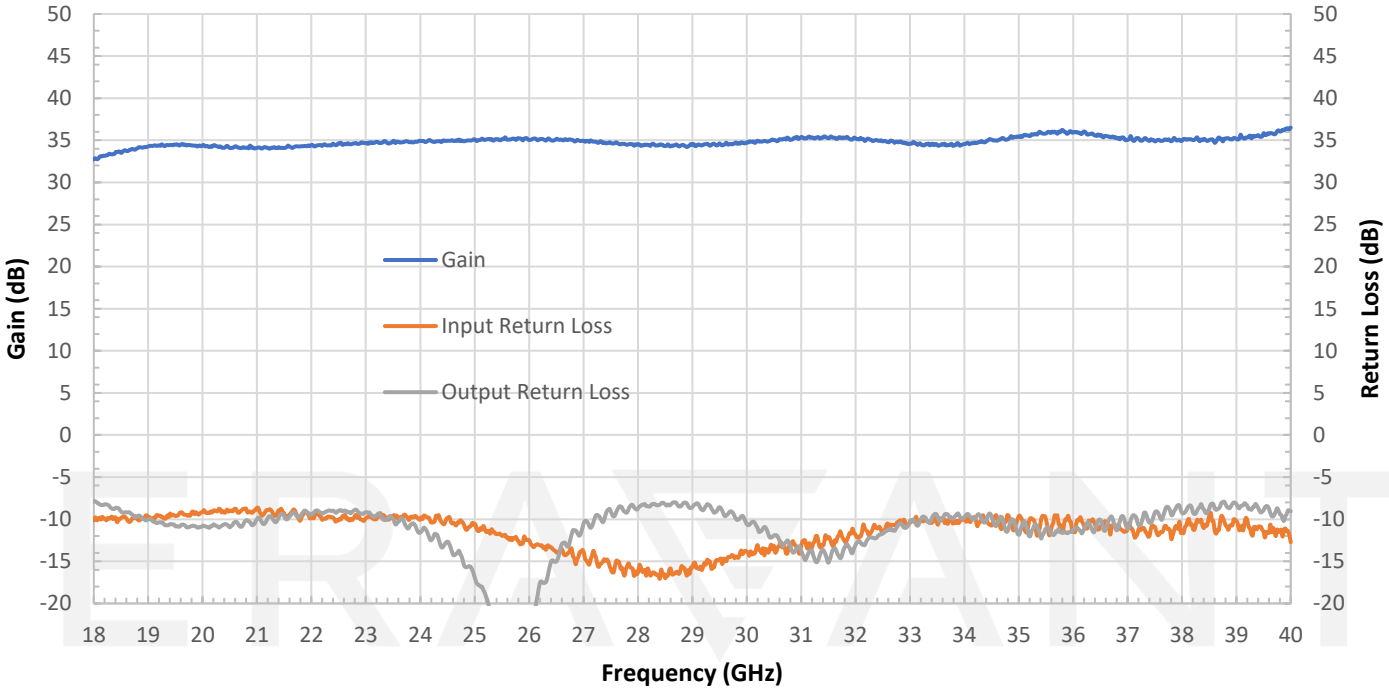
APPLICATIONS

- 5G Systems
- RF Microwave & VSAT
- Wireless Infrastructure
- Test Equipment

SUPPLEMENTAL DETAILS

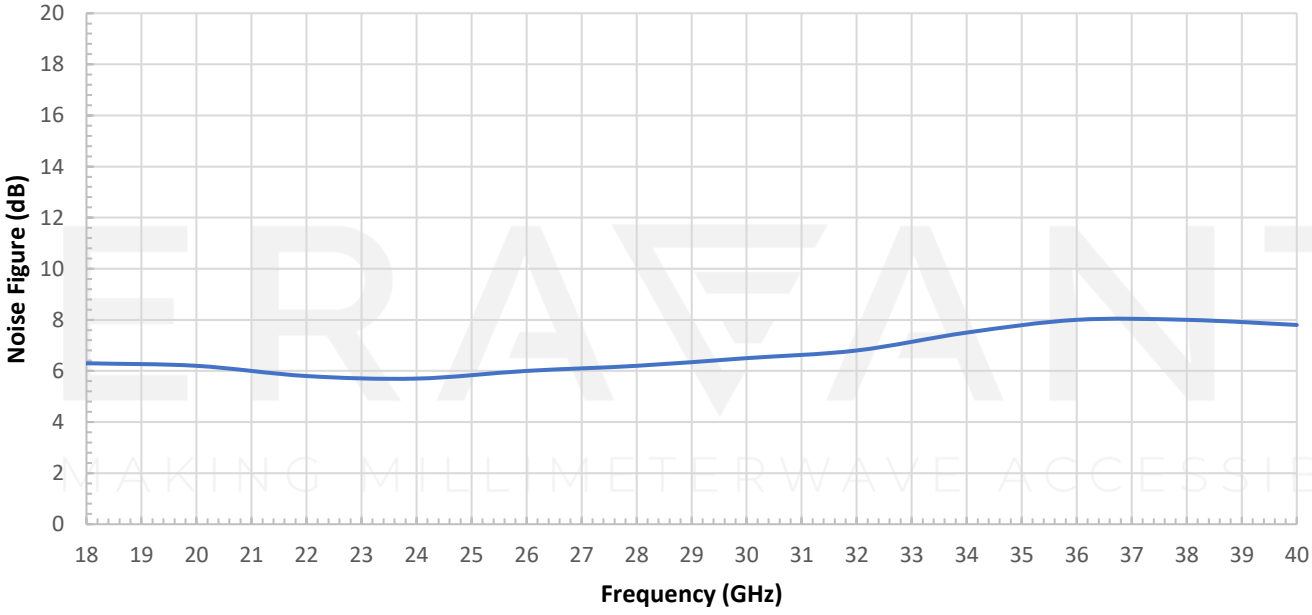
Typical Gain and Return Loss vs. Frequency

Bias: +12 V_{DC}/335 mA



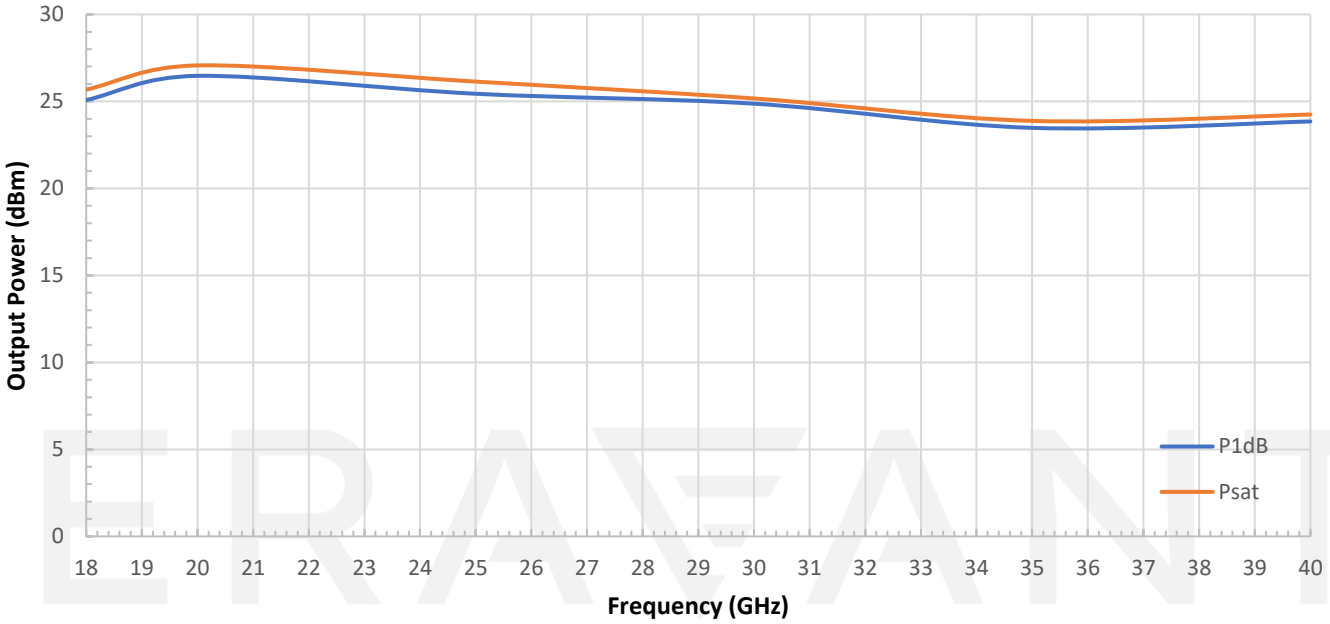
Typical Noise Figure vs. Frequency

Bias: +12V_{DC}/335 mA

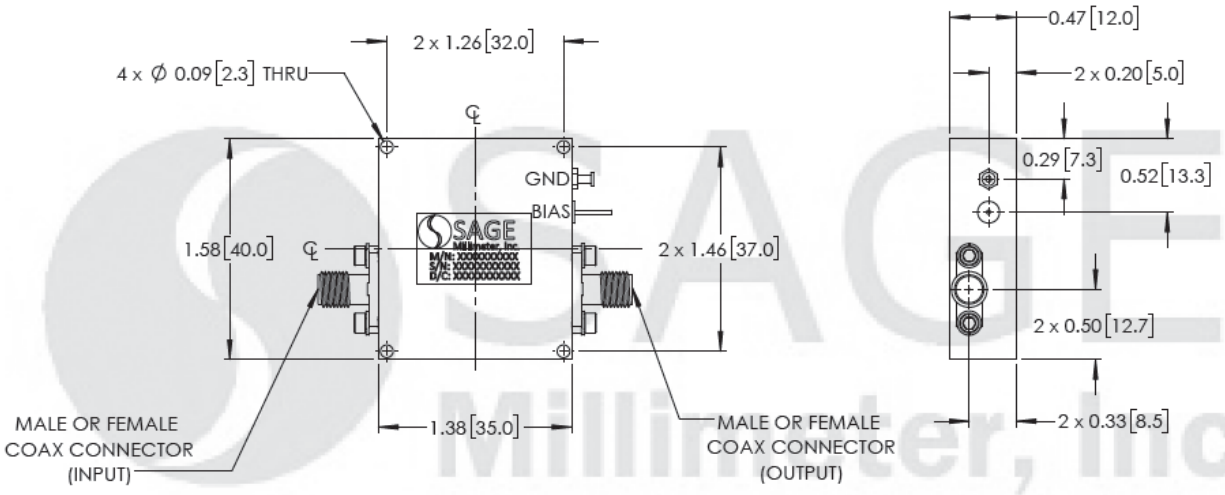


Typical Ouput Power vs. Frequency

Bias: +12V_{DC}/335 mA
RFsat: +12Vdc/400 mA



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 slightly from unit to unit.
- All testing is performed under +25 °C room 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 should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

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