SBB-0122733808-KFKF-E3

Broadband Amplifier, 0.1 to 26.5 GHz, 38 dB Gain, 12 dBm P_{1dB}, 5 dB NF

SBB-0122733808-KFKF-E3 is a broadband amplifier with a typical small signal gain of 38 dB, a nominal P1dB of +12 dBm, and a typical noise figure of 5 dB across the frequency range of 0.1 to 26.5 GHz. The DC power requirement for the amplifier is +8 VDC/500 mA. RF connectors are female K connectors. The heatsink is recommended for better heat management. Other port configurations are available under different model numbers..

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	0.1 GHz		26.5 GHz
Gain		38 dB	
P_{1dB}		+12 dBm	
P_{sat}		+14 dBm	
Noise Figure (3 – 26.5 GHz)		5 dB	
P_{in}			-20 dBm
Input Return Loss		8 dB	
Output Return Loss		8 dB	
DC Voltage	+6 V_{DC}	+8 V_{DC}	+15 V_{DC}
DC Supply Current		500 mA	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
Input Port	K (F)
Output Port	K (F)
Bias	Solder Pin
Material	Brass
Finish	Gold Plated
Weight	3.5 Oz
Size	1.38” (L) x 1.58” (W) x 0.47” (H)
Outline	BG-ZC-1

ECCN

EAR99

FEATURES

- High Output Power
- Good Gain Flatness

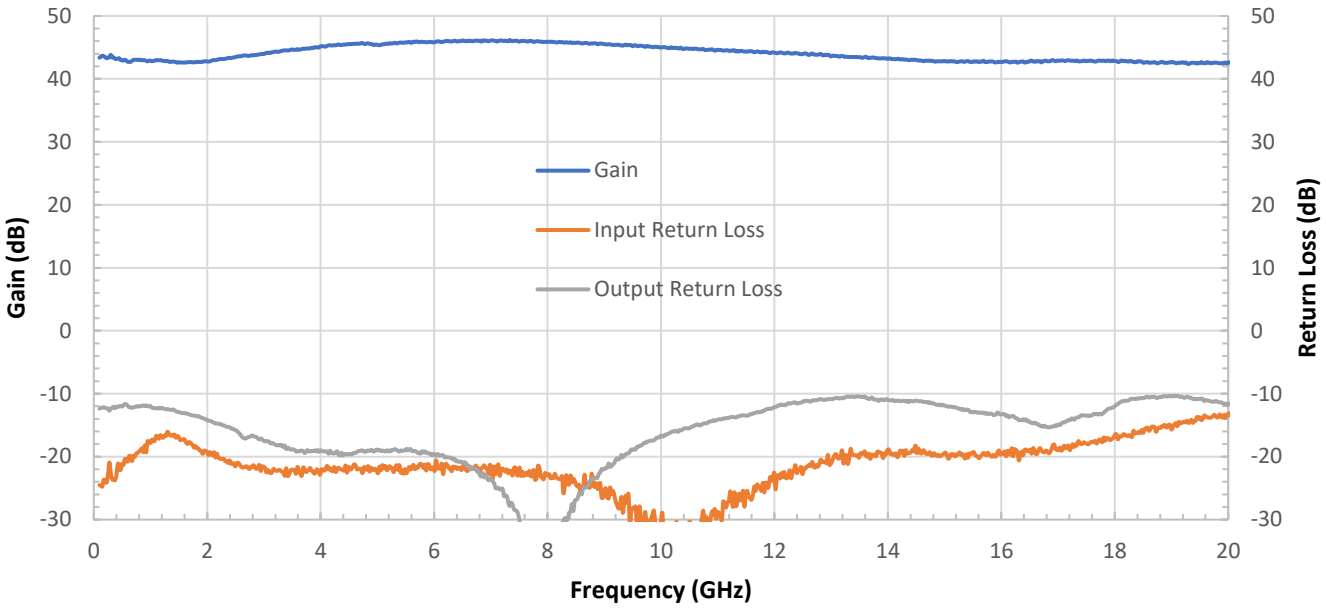
APPLICATIONS

- Radar Systems
- Communication Systems
- Test Equipment

SUPPLEMENTAL DETAILS

Typical Gain and Return Loss vs. Frequency

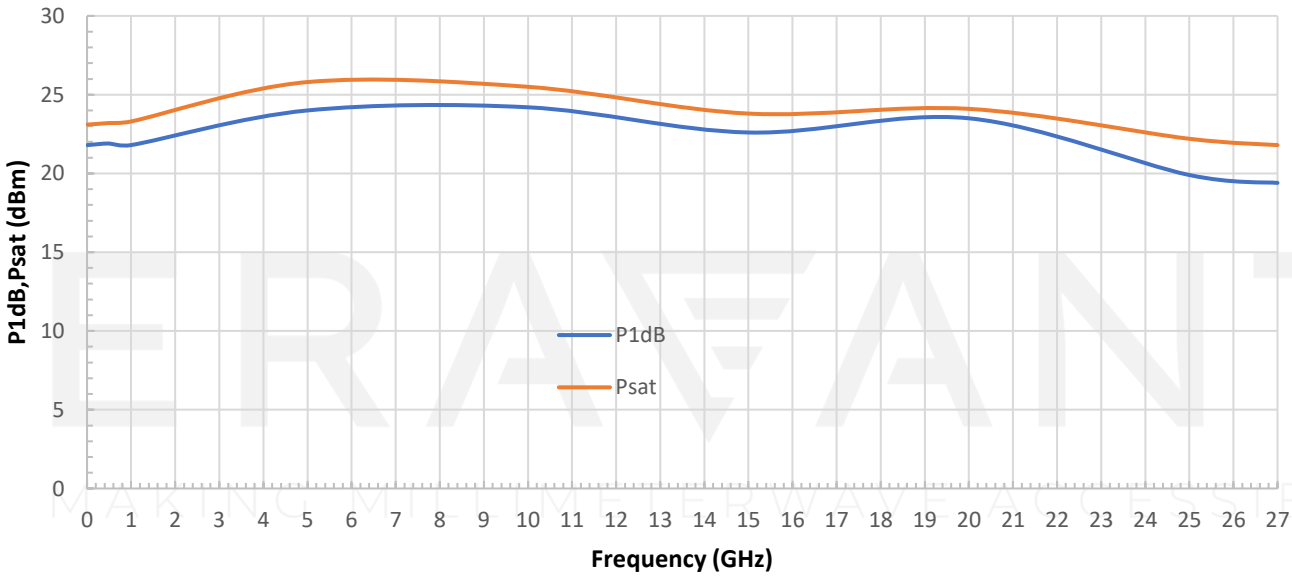
Bias: +8 V_{DC}/527 mA



Typical P1dB vs. Frequency

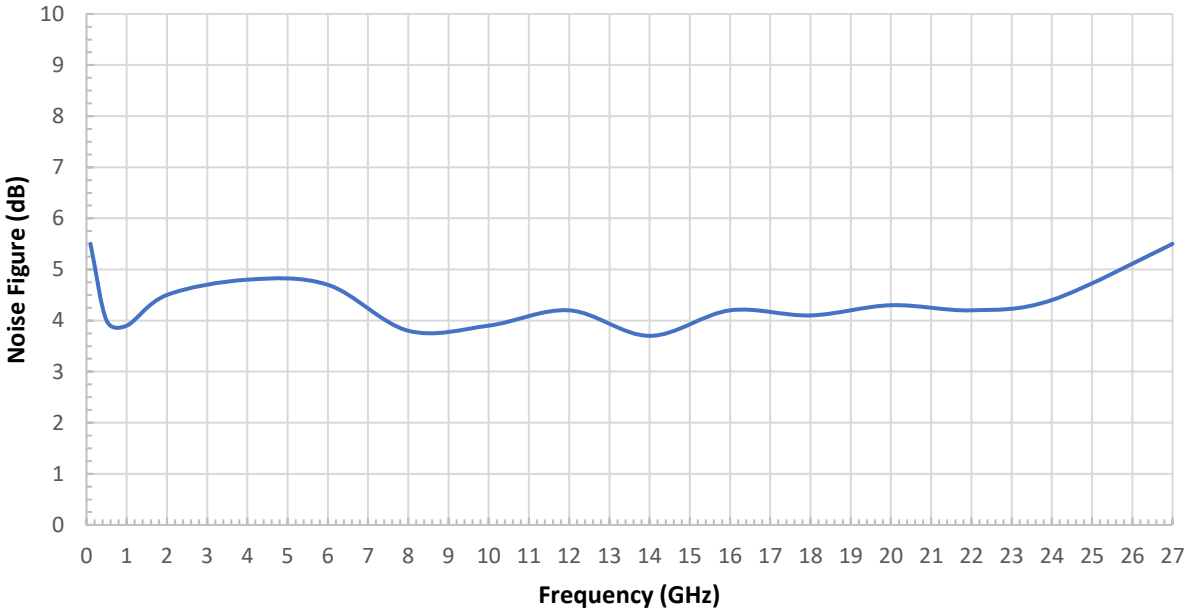
Bias: +8V_{DC}/527 mA

RF Sat: +8V_{DC}/560 mA

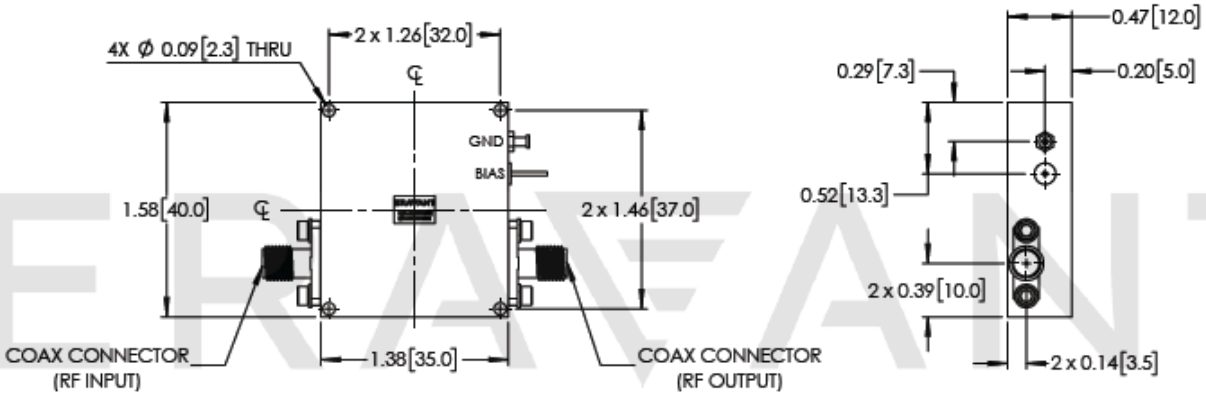


Typical Noise Figure vs. Frequency

Bias: +8V_{DC}/527 mA



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- 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.**

ERAVANT
MAKING MILLIMETERWAVE ACCESSIBLE