

## Low Noise Amplifier, 2 to 22 GHz, 27 dB Gain, 3.5 dB NF

### Description:

**Model SBL-0232232735-KFKF-E3** is a broadband amplifier with a typical small signal gain of 27 dB, a nominal  $P_{1dB}$  of +8 dBm, and a maximum noise figure of 3.5 dB across the frequency range of 2 to 22 GHz. The DC power requirement for the amplifier is +15 V<sub>DC</sub>/300 mA. The RF connectors are female K connectors. Other connector 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	2 GHz		22 GHz
Gain	25 dB	27 dB	
Gain Flatness (Over 500 MHz Peak to Peak)		±0.25 dB	
$P_{1dB}$	+5 dBm	+8 dBm	
$P_{Sat}$		+10 dBm	
OIP3		0 dBm	
Noise Figure			3.5 dB
$P_{in}$			+13 dBm
Input Return Loss		14 dB	
Output Return Loss		14 dB	
DC Power Supply		+15 V <sub>DC</sub> / 300 mA	
Specification Temperature		+25 °C	
Operating Temperature	-25 °C		+85 °C

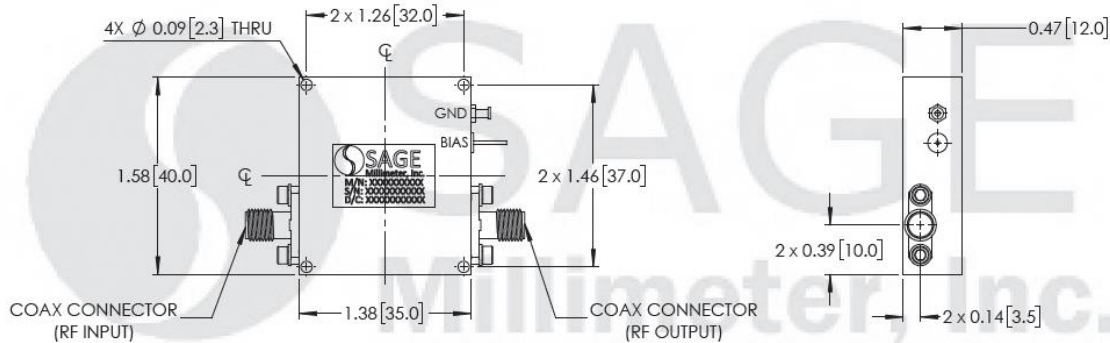
### Mechanical Specifications:

Item	Specification
Input	K (F)
Output	K (F)
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	1.8 Oz
Size	1.38" (L) x 1.57" (W) x 0.47" (H)
Outline	BG-ZC-1



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



**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.
- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

