



Low Noise Amplifier, 24 to 42 GHz, 50 dB Gain, 3.5 dB NF

Description:

Model **SBL-2434235035-KFKF-E3** is a broadband amplifier with a typical small signal gain of 50 dB, a nominal P_{1dB} of +21 dBm, and a typical noise figure of 3.5 dB across the frequency range of 24 to 42 GHz. The DC power requirement for the amplifier is +12 V_{DC}/400 mA. The use of a heat sink is advised to assist in cooling the device. The RF connectors are female K(2.92 mm) connectors.



Features:

- Broadband Coverage
- Good Gain Flatness

Applications:

- RF Microwave & VSAT
- Wireless Infrastructure
- Test Equipment

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	24 GHz		42 GHz
Gain		50 dB	
P_{1dB}		+21 dBm	
P_{sat}		+22 dBm	
Noise Figure		3.5 dB	
P_{in}			-15 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage	+6 V _{DC}	+12 V _{DC}	+15 V _{DC}
DC Supply Current		400 mA	500 mA
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

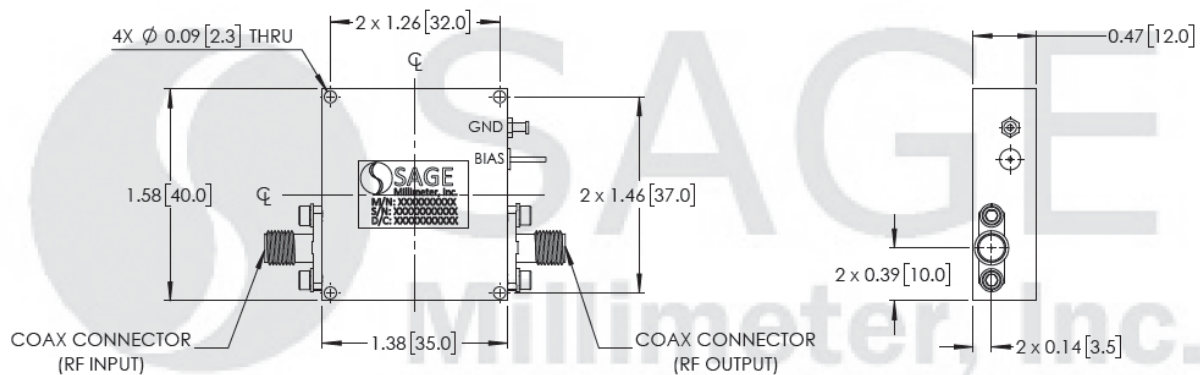
Item	Specification
Input	K (F)
Output	K (F)
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Weight	1.8 Oz
Size	1.38" (L) x 1.57" (W) x 0.47" (H)
Outline	BG-ZC-1





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



Note:

- SAGE Millimeter, Inc. 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 ± 0.4 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

