SBL-3734435025-2F2F-S1

Coax Low Noise Amplifier, 37 to 44 GHz, 50 dB Gain, 2.5 dB NF

Description:

Model SBL-3734435025-2F2F-S1 is a low noise amplifier with a typical small signal gain of 50 dB and a nominal noise figure of 2.5 dB across the frequency range of 37 to 44 GHz. The DC power requirement for the amplifier is $+8 V_{DC}/1.7 A$. The input and output port configurations are both female 2.4 mm connectors. Other port configurations, such as male 2.4 mm connectors and WR-22 waveguides for either the input or output port, are also available under different model numbers.



- State-of-the-Art Noise Figure
- Good Gain Flatness

Starlink

Applications:

• Low Noise Receivers

Parameter	Minimum	Typical	Maximum
Frequency	37 GHz		44 GHz
Gain		50 dB	
Noise Figure		2.5 dB	
P _{1dB}		+29 dBm	
P _{in}			+5 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+12 V _{DC}
DC Supply Current		1.7 A	
Specification Temperature		+25 °C	
Operating Temperature	0°C		+50 °C

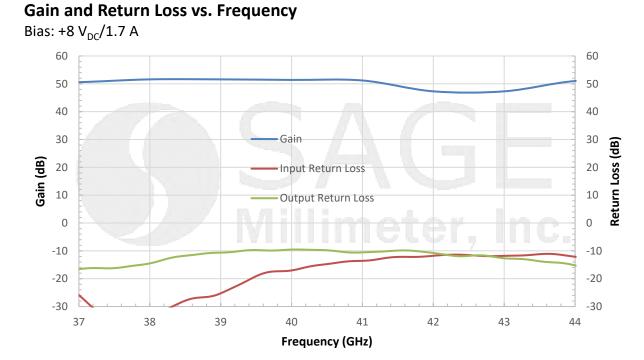
Mechanical Specifications:

ltem	Specification		
Input	2.4 mm (F)		
Output	2.4 mm (F)		
Bias	Solder Pin		
Case Material	Aluminum		
Finish	Gold Plated		
Weight	1.3 Oz		
Size	1.20" (W) 1.20" (L) X 0.50" (H)		
Outline	BG-SC-1		

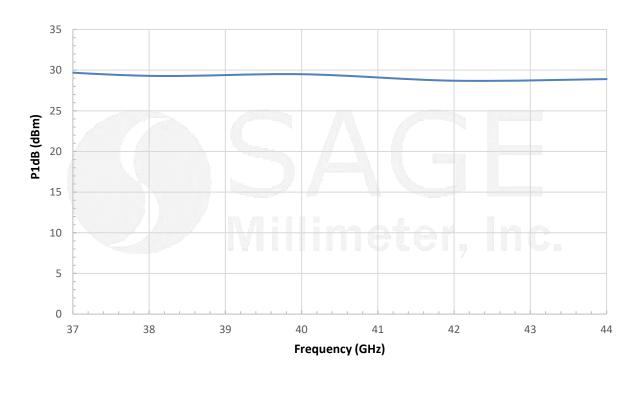


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P1dB vs. Frequency Bias: +8 V_{DC}/1.7 A



RoHS

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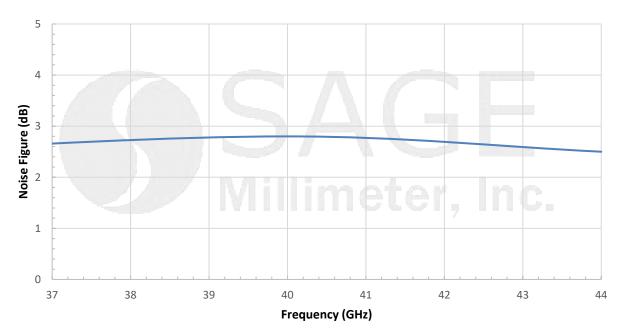
Advanced Rev 1.2

SBL-3734435025-2F2F-S1

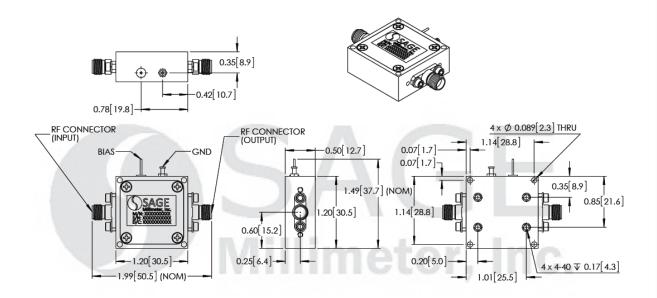
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Noise Figure vs. Frequency

Bias: +8V_{DC}/1.7 A



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.





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