SBB-0122732018-KFKF-E3

Broadband Amplifier, 0.1 to 26.5 GHz, 20 dB Gain, 18 dBm P_{1dB} , 5 dB NF

Description:

Model SBB-0122732018-KFKF-E3 is a broadband amplifier with a typical small signal gain of 20 dB, a nominal P_{1dB} of +18 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 +12 V_{DC}/300 mA. RF connectors are female K connectors. The heatsink is recommended for better heat management. Other port configurations are available under different model numbers.

Features:

- High Output Power
- Good Gain Flatness



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Applications:

- Radar Systems
- Communication Systems
- Test Equipment

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	0.1 GHz		26.5 GHz
Gain		20 dB	
P _{1dB}		+18 dBm	
P _{sat}		+21 dBm	
Noise Figure		5 dB	
P _{in}			+5 dBm
Input Return Loss		8 dB	
Output Return Loss		8 dB	
DC Voltage	+6 V _{DC}	+12 V _{DC}	+15 V _{DC}
DC Supply Current		300 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	
Case Material	Aluminum	
Finish	Gold Plated	
Weight	1.8 Oz	
Size	1.00" (L) x 0.67" (W) x 0.39" (H)	
Outline	BB-ZC-3	



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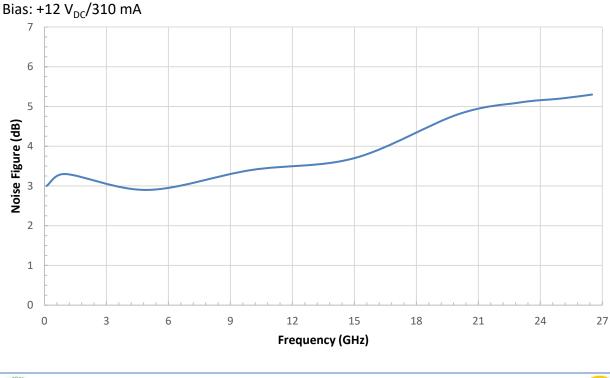
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Bias: +12 V_{DC}/310 mA 30 50 40 20 30 10 20 Gain Return Loss (dB) 0 **Gain (dB)** Input Return Loss 10 Output Return Loss 0 -10 -20 -20 -30 -30 -40 -40 3 6 9 15 18 21 24 0 12 27 Frequency (GHz)

Gain and Return Loss vs. Frequency

Noise Figure vs. Frequency



SAGE Millimeter, Inc.

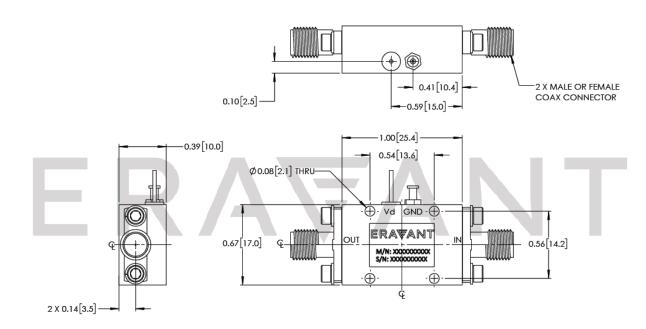
RoHS

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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 unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- 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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.



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