STB-0114033018-KFKF-S1

Broadband Amplifier, 10 MHz to 40 GHz, 30 dB Gain, +18 dBm P_{1dB}

Description:

Model STB-0114033018-KFKF-S1 is a broadband benchtop driver amplifier with a typical small signal gain of 30 dB and a nominal P_{1dB} of +18 dBm across the frequency range of 10 MHz to 40 GHz. The power supply required is a single phase AC voltage in the range of 100 to 240 V_{AC}, which can be supplied by a wall outlet. The LED light helps to indicate the working status of the amplifier. The input and output port configurations are both female 2.92 mm connectors.



Features:

- Ultra-Broadband Coverage
- Good Gain Flatness

Applications:

- Bench Top Power Amplification
- Antenna Range
- Power Boosting

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	0.01 GHz		40.00 GHz
Gain		30 dB	
P _{1dB}		+18 dBm	
P _{sat}		+19 dBm	
Noise Figure		6.0 dB	
RF Input Damage Level			0 dBm
Input Return Loss		8 dB	
Output Return Loss		8 dB	
Power Supply (AC Adapter Provided)	100 V _{AC}		240 V _{AC}
Specification Temperature		+25 °C	
Case Temperature	0 °C		+50 °C

Mechanical Specifications:

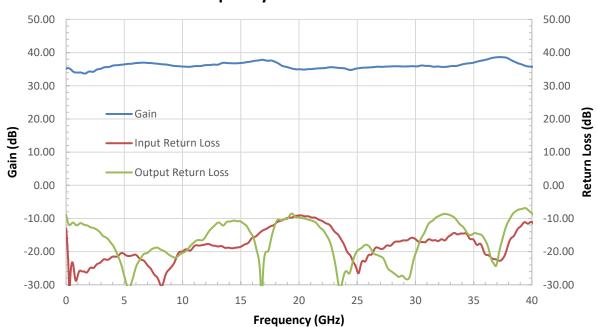
ltem	Specification	
Input	2.92 mm (F)	
Output	2.92 mm (F)	
DC Bias	2.5 mm DC Jack (AC-to-DC power converter included)	
DC Bias Switch	Off-On Latching Switch with Indicator Light	
Enclosure Material	Extruded Aluminum	
Finish	Black Anodized	
Weight	3 lbs	
Size	4.89" (W) x 5.00" (L) x 1.90" (H)	
Outline	TB-SC-2	



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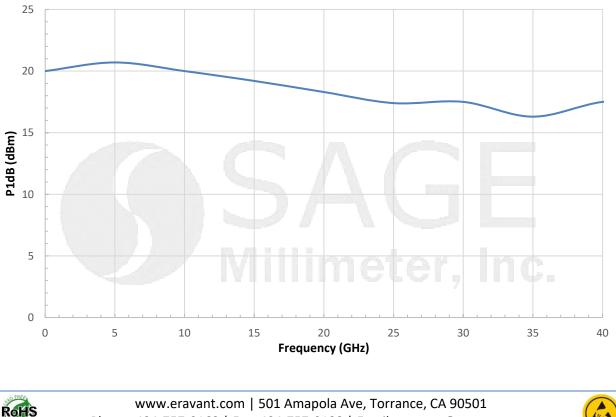
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Gain and Return Loss vs. Frequency

P1dB vs. Frequency



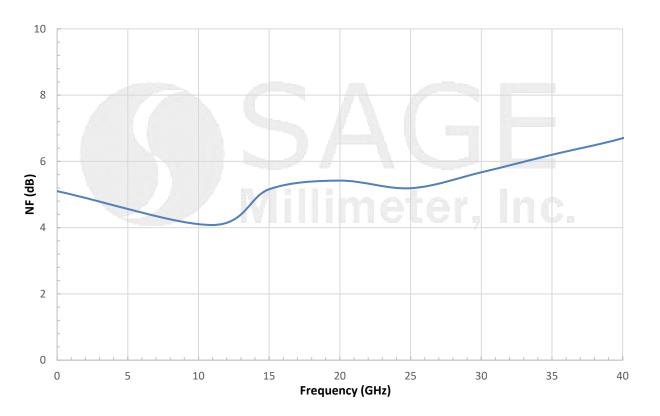
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Noise Figure vs. Frequency





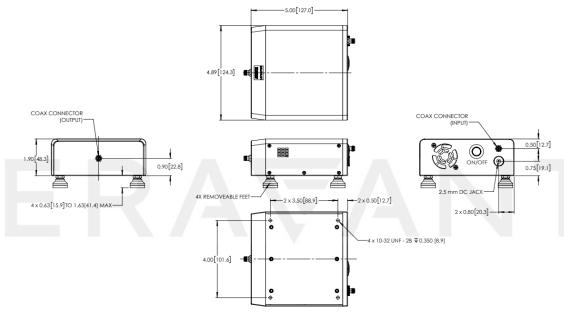


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



FEET REMOVED TO SHOW MOUNTING LOCATIONS

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.
- AC-to-DC power converter with cord is included.
- Other mechanical configurations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

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 (0.92 ± 0.05 Nm), should be applied. Eravant torque wrench, model SCH-08008-S1, is highly recommended.

Millimeter, Inc.



