STB-2735033015-2F2F-S1

Rev. 1.0

Broadband Amplifier, 26.5 to 50 GHz, 30 dB Gain, +15 dBm P_{1dB}

Description:

Model STB-2735033015-2F2F-S1 is a broadband benchtop amplifier with a typical small signal gain of 30 dB and a nominal P_{1dB} of +15 dBm across the frequency range of 26.5 to 50 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 2.4mm connectors.

Features:

- Broadband Coverage
- Good Gain Flatness

Applications:

- Bench Top Power Amplification
- Antenna Range
- Power Boosting

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	26.5 GHz		50 GHz
Gain		30 dB	
P_{1dB}		+15 dBm	
RF Input Damage Level			-10 dBm
Input Return Loss		9 dB	
Output Return Loss		9 dB	
Power Supply (AC Adapter Provided)	100 V_{AC}		240 V_{AC}
Specification Temperature		+25˚C	
Case Temperature	0˚C		+50˚C

Mechanical Specifications:

Item	Specification
Input	2.4 mm (F)
Output	2.4 mm (F)
DC Bias	2.5 mm DC Jack (AC-to-DC power converter included)
DC Bias Switch	On-Off Rocker Switch with Indicator Light
Enclosure Material	Extruded Aluminum
Finish	Black Anodized
Weight	1.5 lbs
Size	3.22” (W) x 4.12” (L) x 1.74” (H)
Outline	TB-SC

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
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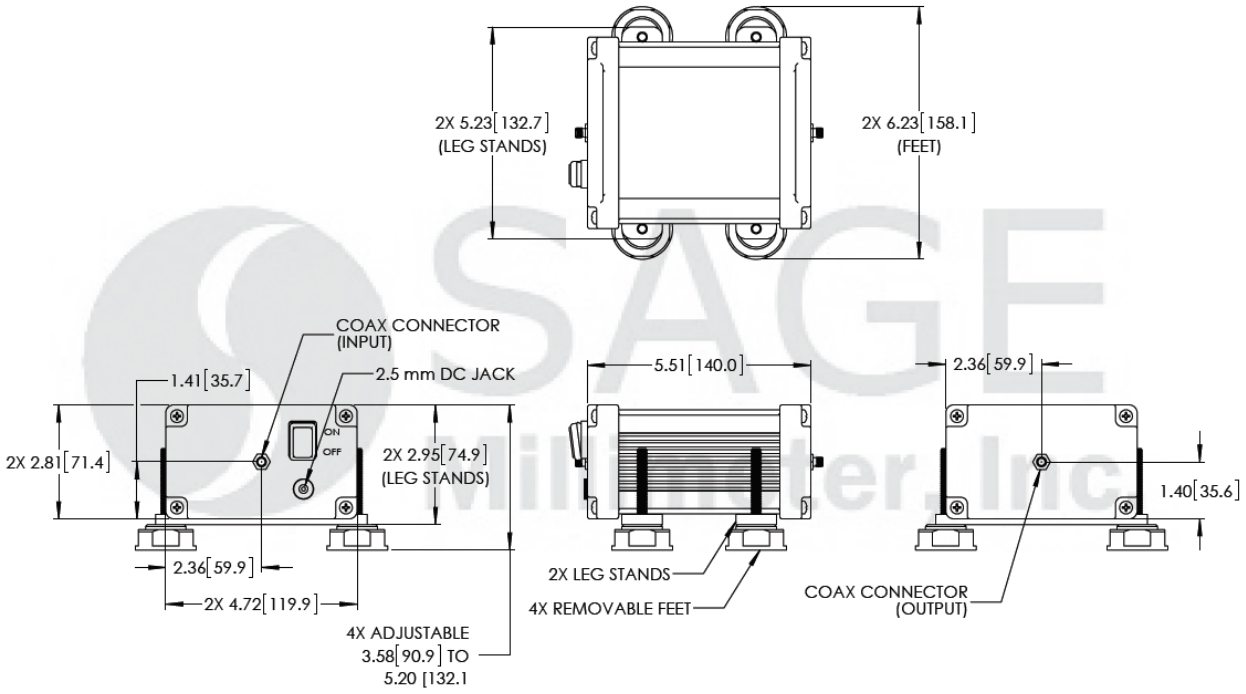
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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.
- SAGE Millimeter, Inc. 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. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

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