

Compact Benchtop Amplifier, 60 to 90 GHz, 20 dB Gain, +16 dBm P_{SAT}

Description:

Model STB-6039032012-1212-S1-C is a compact benchtop amplifier with a typical small signal gain of 20 dB and a nominal P_{1dB} of +12 dBm and +16 dBm P_{SAT} across the frequency range of 60 to 90 GHz, respectively. An AC to DC power adapter is provided so that 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 or lab benches. The fan helps to keep the amplifier working around room temperature. The input and output ports are WR-12 waveguides with standard UG-387/U anti-cocking flanges.



Features:

- Full Waveguide Band Coverage
- High Gain
- High Output Power

Applications:

- Communication Systems
- Bench Top Power Amplification
- Test Equipment

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
Gain		20 dB	
P _{1dB}		+12 dBm	
P _{sat}		+16 dBm	
P _{in}			+10 dBm
Port Return Loss		10 dB	
Power Supply (AC Adapter Provided)	100 V _{AC}		240 V _{AC}
Specification Temperature	// \	+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

ltem	Specification		
RF Ports	WR-12 Waveguide with UG-387/U Anti-Cocking Flange		
DC Bias	2.5 mm DC Jack (AC-to-DC power converter included)		
Enclosure Material	Extruded Aluminum		
Finish	Various		
Weight	1.5 lbs		
Size	2.36" (W) x 2.36" (L) x 4.10" (H)		
Outline	TB-SE-A-C		

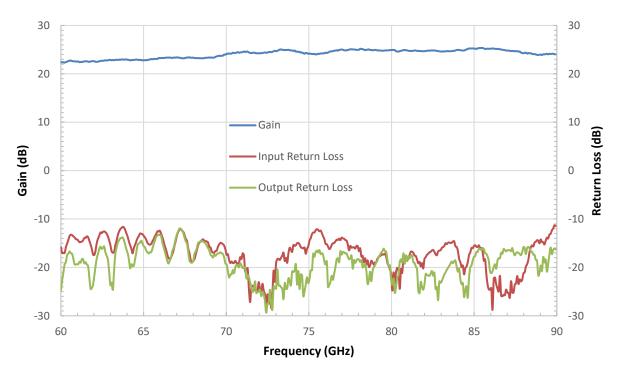


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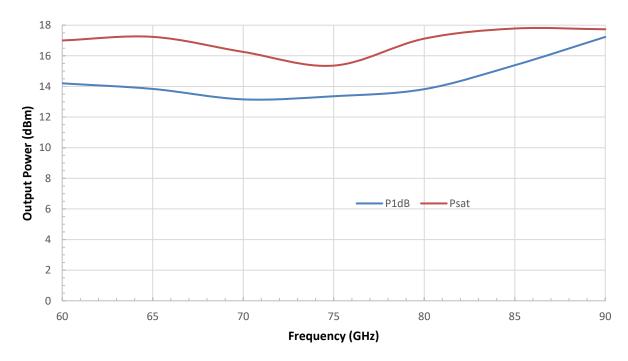
Rev 1.0

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Gain and Return Loss vs. Frequency



Output Power vs. Frequency



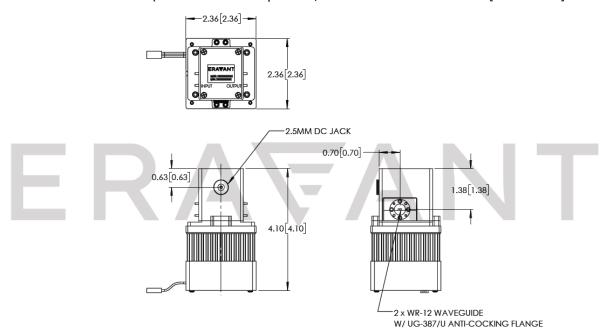


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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters]



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 adapter with cord is included.
- Other mechanical configurations are available under different model numbers.
- Eravant, 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.



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