### SBP-8839632035-1010-C1-HR

### 3A001.b.4

### • 3 W CW Output Power

- In-line Port Configuration •
- Forced Air Cooling •

#### **APPLICATIONS**

ECCN

**FEATURES** 

- **Communications Systems** ٠
- **Test Equipment** ٠
- Radar Systems •

#### SUPPLEMENTAL DETAILS

### 88 to 96 GHz, Power Amplifier, 20 dB Gain, +35 dBm Psat

SBP-8839632035-1010-C1-HR is a W-Band, power amplifier with a typical small signal gain of 20 dB and a nominal  $\mathsf{P}_{\mathsf{Sat}}$  of +35 dBm across the frequency range of 88 to 96 GHz. The DC power requirement for the amplifier is +15 V<sub>DC</sub>/ 5.5 A. The mechanical configuration offers an inline structure with WR-10 waveguides and UG-387/U-M anti-cocking flanges. The amplifier is mounted on a heatsink with fan that operates on +12 V<sub>DC</sub> supply.

### **Electrical Specifications:**

Parameter		Minimum	Typical	Maximum
Frequency Range		88 GHz		96 GHz
Small Signal Gain			20 dB	
P-1dB	88-90 GHz		+30 dBm	
	90-94 GHz		+30 dBm	
	94-96 GHz		+27 dBm	
P <sub>Sat</sub>	88-90 GHz		+35 dBm	
	90-94 GHz		+35 dBm	
	94-96 GHz		+33 dBm	
Pin				+24 dBm
Input Return Loss			8 dB	
Output Return Loss			8 dB	
DC Voltage			+15 V <sub>DC</sub>	
DC Supply Current (Quiescent):			3.2 A	
DC Supply Current (Saturated):			5.5 A	
Fan DC Voltage			+12 V <sub>DC</sub>	
Specification Temperature			+25°C	
Operating Temperature		0°C		+70°C



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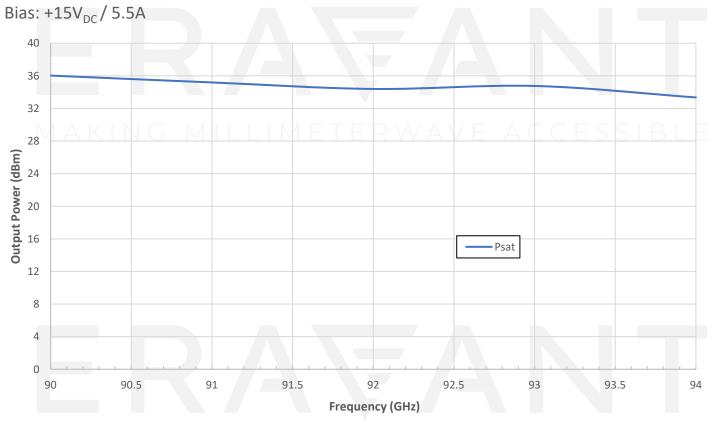
## SBP-8839632035-1010-C1-HR

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### **Mechanical Specifications:**

Item	Specification		
Input/ Output Ports	WR-10 Rectangular Waveguide with UG-387/U-M Anti-Cocking Flange		
Bias	Solder Pin		
Case Material	Aluminum		
Finish	Gold Plated, Black Anodized		
Fan Connector	Molex 5051-03		
Degree of Protection	IP40		
Weight	5 lbs		
Size	6.20" (L) X 7.40" (W) X 3.73" (H)		
Outline	BP-SW-2-H95-WP4-A		

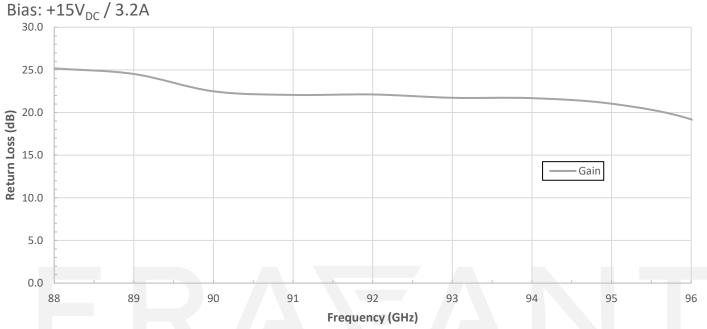
### **Typical Output Power vs. Frequency**



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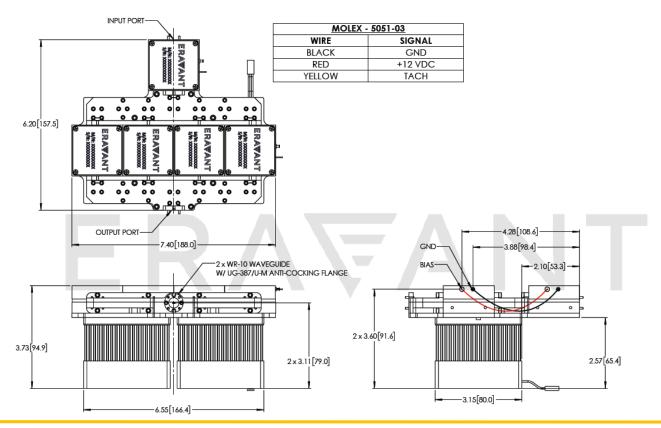
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**Typical Gain vs. Frequency** 



### **Mechanical Outline:**

Unless otherwise specified, all dimensions are in inches [millimeters])



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### NOTE:

- The datasheet product photo used is not representative of the final product.
- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- Other mechanical configurations with other frequency bands 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 +75°C.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

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