

## SBP-3133834034-KFKF-H1-HR

### 31 to 38 GHz, Power Amplifier, 40 dB Gain, +35 dBm P<sub>sat</sub>

**SBP-3133834034-KFKF-H1-HR** is a power amplifier with a typical small signal gain of 40 dB and a nominal P<sub>sat</sub> of +35 dBm across the frequency range of 31 to 38 GHz. The DC power requirement for the amplifier is +8 V<sub>DC</sub>/ 4.0 A. The mechanical configuration offers an in-line structure with female K connectors. Other port configurations, such as 2.4 mm connectors and 1.85 mm connectors for either the input or output port, are also available under different model numbers. A heat sink is included for cooling.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	31 GHz		38 GHz
Small Signal Gain		40 dB	
P <sub>1dB</sub>		+34 dBm	
P <sub>Sat</sub>		+35 dBm	
P <sub>In</sub> (Damage)			+20 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Voltage		+8 V <sub>DC</sub>	+12 V <sub>DC</sub>
DC Supply Current (Saturated)		4.0 A	
Fan DC Voltage		+12 V <sub>DC</sub>	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

#### Mechanical Specifications:

Item	Specification
Input/Output Ports	2.92 mm (F)
Bias	Solder Pin
Case Material	Aluminum
Finish	Gold Plated, Black Anodize
Fan Connector	2 wire leads
Degree of Protection	IP40
Outline	BP-SC-2-SR-H95

#### ECCN

3A001.b.4

#### FEATURES

- Forced Air Cooling
- In-line Port Configuration
- High Output Power

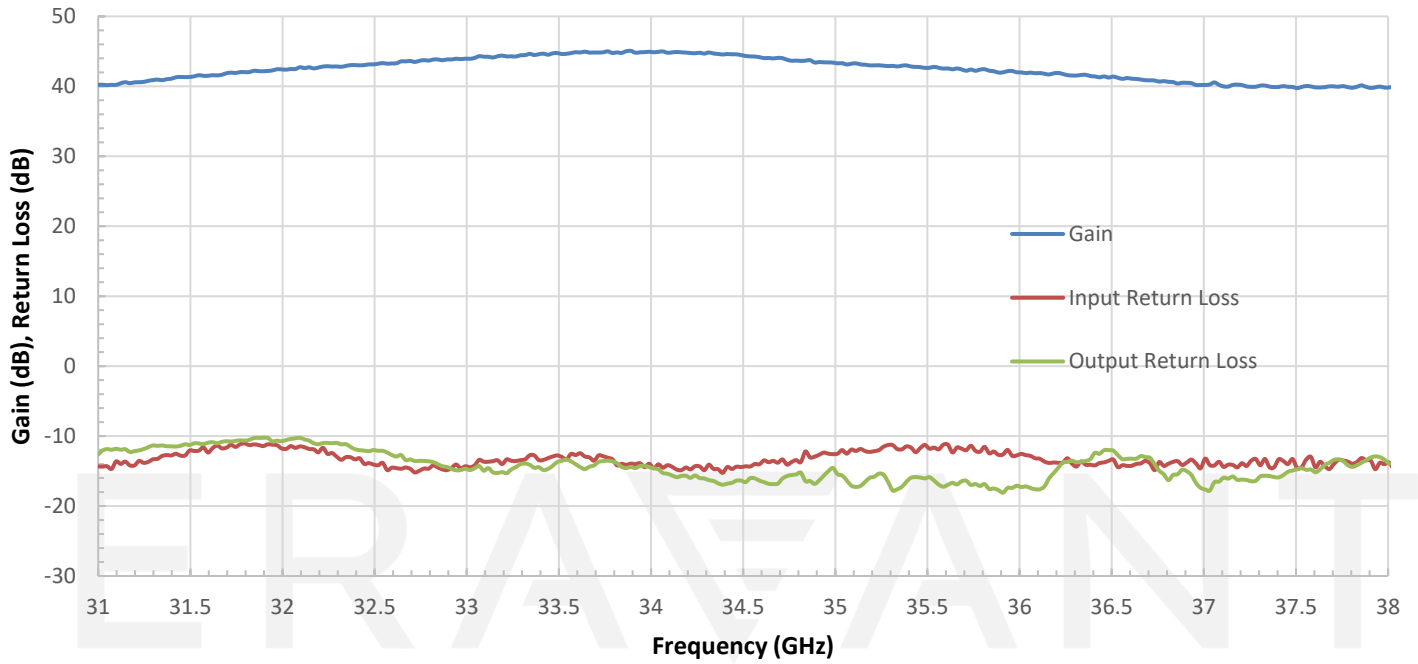
#### APPLICATIONS

- Communications Systems
- Test Equipment
- Radar Systems
- SATCOM

#### SUPPLEMENTAL DETAILS

### Gain and Return Loss vs. Frequency

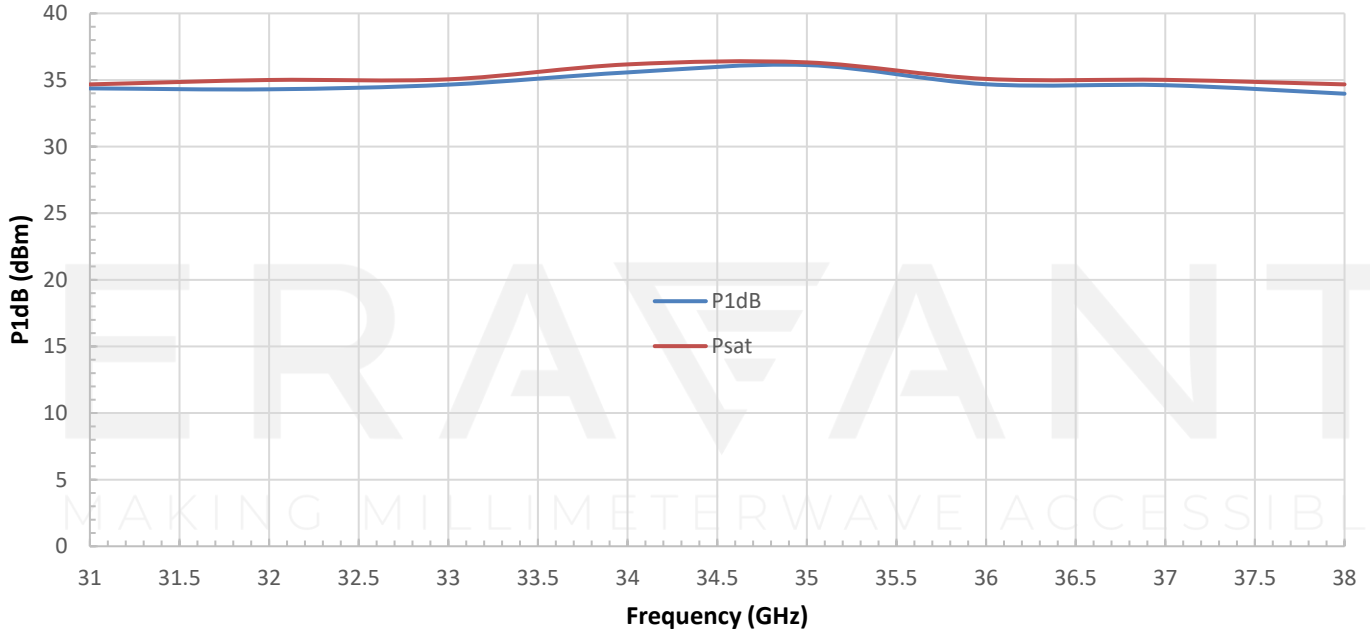
Bias: +8 V<sub>DC</sub>/2,397 mA



### Output Power vs. Frequency

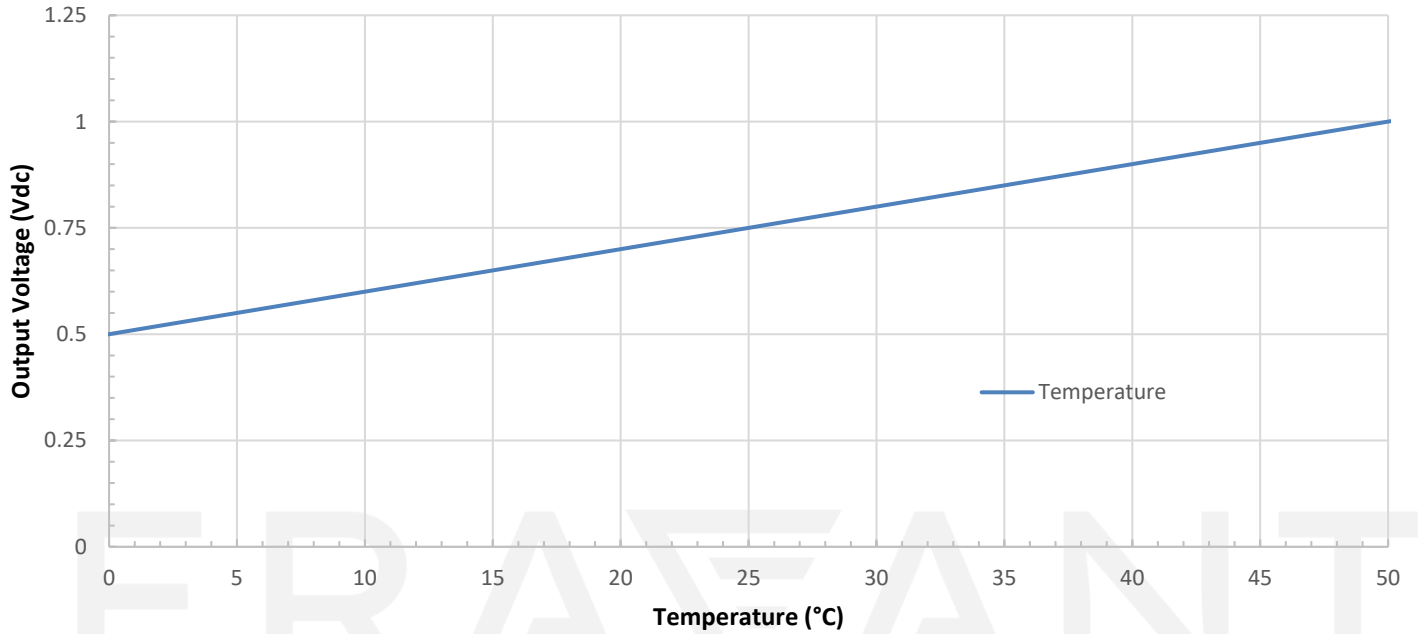
Bias: +8V<sub>DC</sub>/2,397 mA

RFsat: +8Vdc/ 4,000 mA

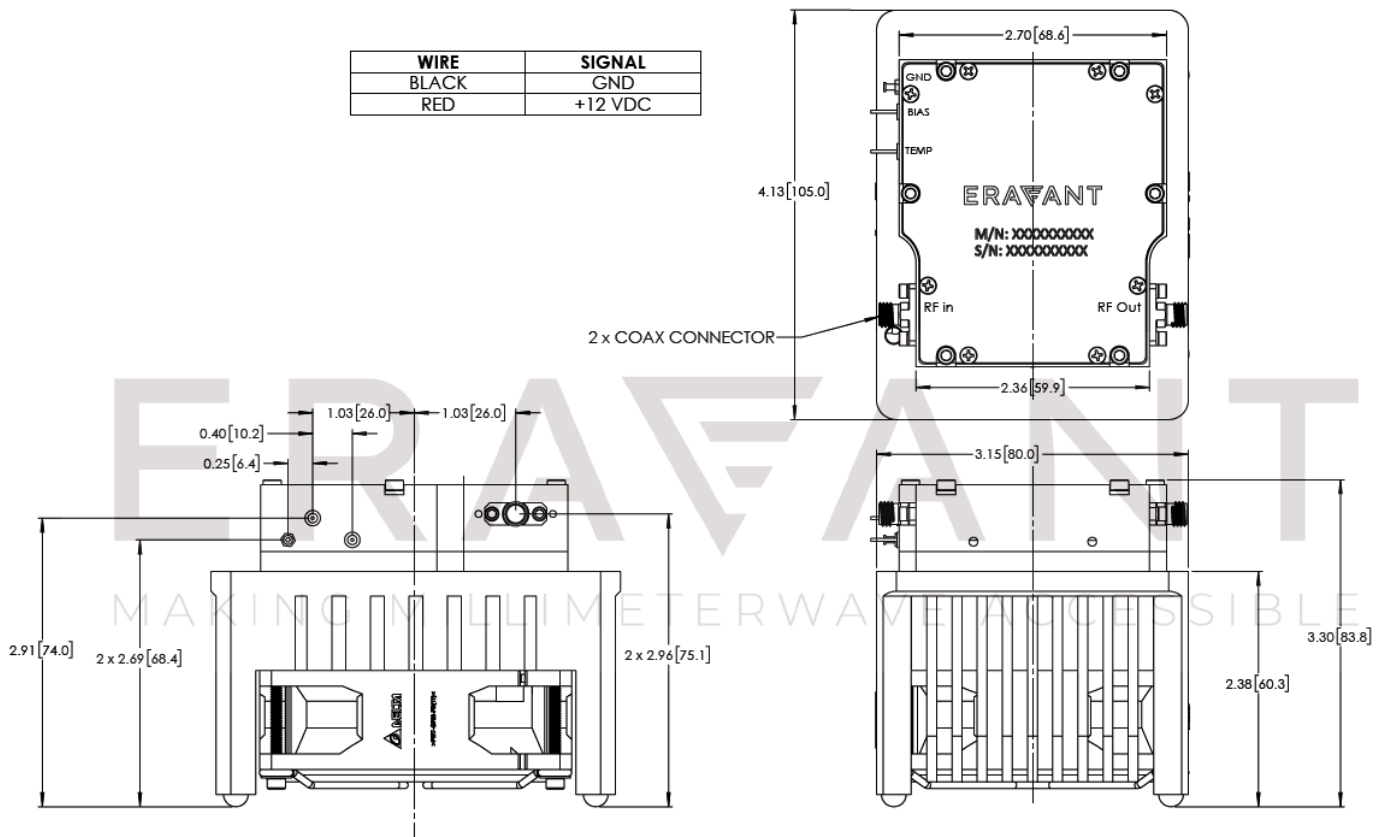


## SBP-3133834034-KFKF-H1-HR

### Temperature vs Temp Sensor Output Voltage



**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.
- 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 +50°C.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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