## SBP-3433734440-KFKF-EP

### 34 to 37 GHz Power Amplifier, 44 dB Gain, +40 dBm Psat

**SBP-3433734440-KFKF-EP** is a power amplifier with a typical small gain of 44 dB and a nominal P<sub>sat</sub> of +40 dBm across the frequency range of 34 to 37 GHz. The DC power requirement for the amplifier is +28 V<sub>DC</sub>/3.5 A. The mechanical configurations is an inline structure with K(F) connector as its input port and output port. Other port configurations, such as K(M) connectors and WR-28 waveguides for either the input or output port, are also available under different model numbers.

### **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	34 GHz		37 GHz
Small Signal Gain		44 dB	
Power Gain		38 dB	
P <sub>sat</sub>		+40 dBm	
Pin			+5 dBm
Input Return Loss		10 dB	
Output Return Loss		6 dB	
DC Supply Voltage	+26 V <sub>DC</sub>	+28 V <sub>DC</sub>	+32 V <sub>DC</sub>
DC Supply Current		3.5 A	
Supply Voltage to Fan		+12 V <sub>DC</sub> /0.6 A	
Specification Temperature		+25 °C	
Operating Temperature	0°C		+50 °C

### Mechanical Specifications:

Item	Specification		
Input	2.92 mm (K) Female		
Output	2.92 mm (K) Female		
Power Supply	Solder Pin		
Case Material			
Finish	Gold Plated		
Size	2.99" (L) X 3.15" (W) X 3.30" (H)		
Outline	BP-HC-H2		

### ECCN 3A001.b.4

### FEATURES

- Broadband Performance
- High Gain
- High Output Power

### APPLICATIONS

- Radar Systems
- Communication Systems
- Test Equipment

### SUPPLEMENTAL DETAILS



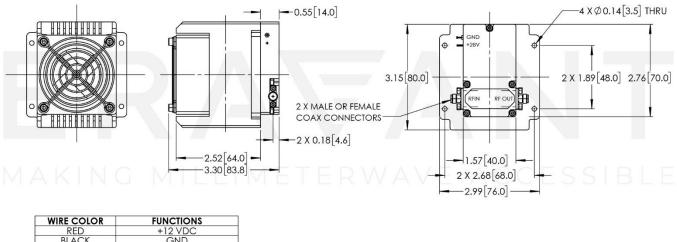
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# ERAWANT

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



WIRE COLOR	FUNCTIONS
RED	+12 VDC
BLACK	GND
YELLOW	TACH (OPTIONAL)
BLUE	PWM(OPTIONAL)

#### 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.
- 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.
- Do not block the air inlets and outlets.
- The device is static sensitive. Always follow ESD rules when working with the device.
- Do not plug or unplug any connectors when amplifier is activated. All connectors must be connected/disconnected when amplifier is off.
- The case temperature of the device shall never exceed +50 °C. Use proper heatsink or fan if necessary
- Any foreign objects in the waveguide will degrade performance and/or damage the device.
- Proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model <u>SCH-08008-S1</u> is highly recommended.

## MAKING MILLIMETERWAVE ACCESSIBLE