

## SBP-2733134036-KFKF-E3

### Ka-Band Power Amplifier, 27 to 31 GHz, 40 dB Gain, +38 dBm Psat

**SBP-2733134036-KFKF-E3** is a power amplifier with a typical small signal gain of 40 dB and a nominal Psat of +38 dBm across the frequency range of 27 to 31 GHz. The DC power requirement for the amplifier is +12 V<sub>DC</sub>/3 A quiescent. The RF input and output ports are 2.92 mm female connectors. Other port configurations are available under different model numbers.



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	27 GHz		31 GHz
Gain	40 dB		50 dB
Gain Flatness		±2 dB	
P <sub>1dB</sub>		+36 dBm	
P <sub>sat</sub>		+38 dBm	
P <sub>in</sub>			0 dBm
Input Return Loss		9 dB	
Output Return Loss		9 dB	
DC Voltage		+12 V <sub>DC</sub>	+15 V <sub>DC</sub>
DC Supply Current		3 A	
Impedance		50 Ω	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

### Mechanical Specifications:

Item	Specification
Input Port	K (F)
Output Port	K (F)
Bias	Solder Pin
Material	Aluminum
Finish	Gold Plated
Size	3.35" (W) x 1.97" (W) x 0.47" (H)
Outline	BP-ZC-14

### FEATURES

- High Gain
- Good Gain Flatness
- High Output Power

### APPLICATIONS

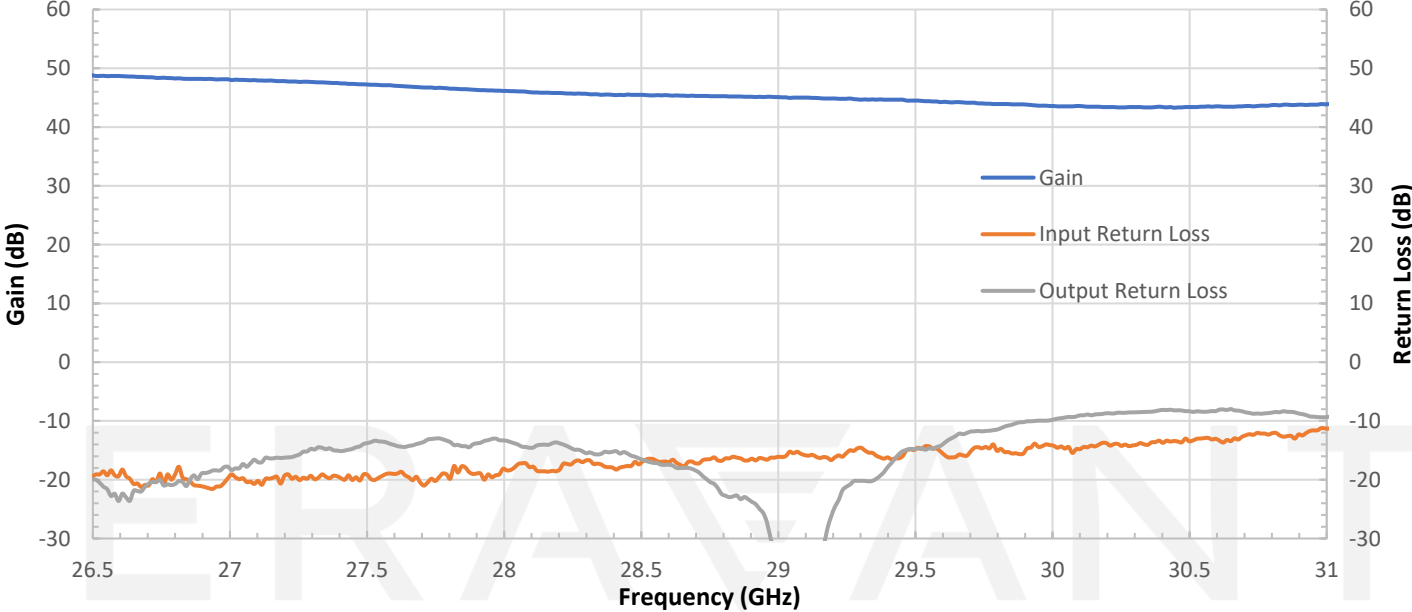
- 5G Systems
- Radar Systems
- Communication
- Test Equipment

### SUPPLEMENTAL DETAILS



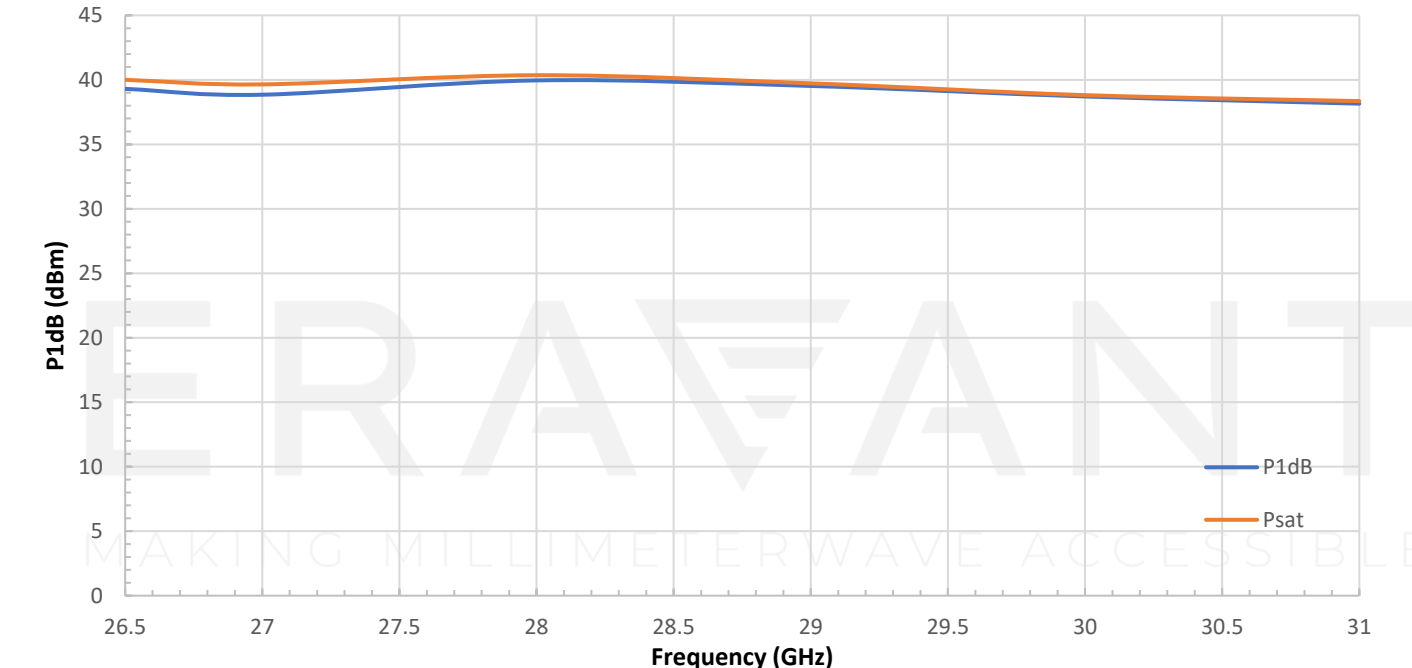
Gain and Return Loss vs. Frequency

Bias: +12 V<sub>DC</sub>/3 A



P1dB vs. Frequency

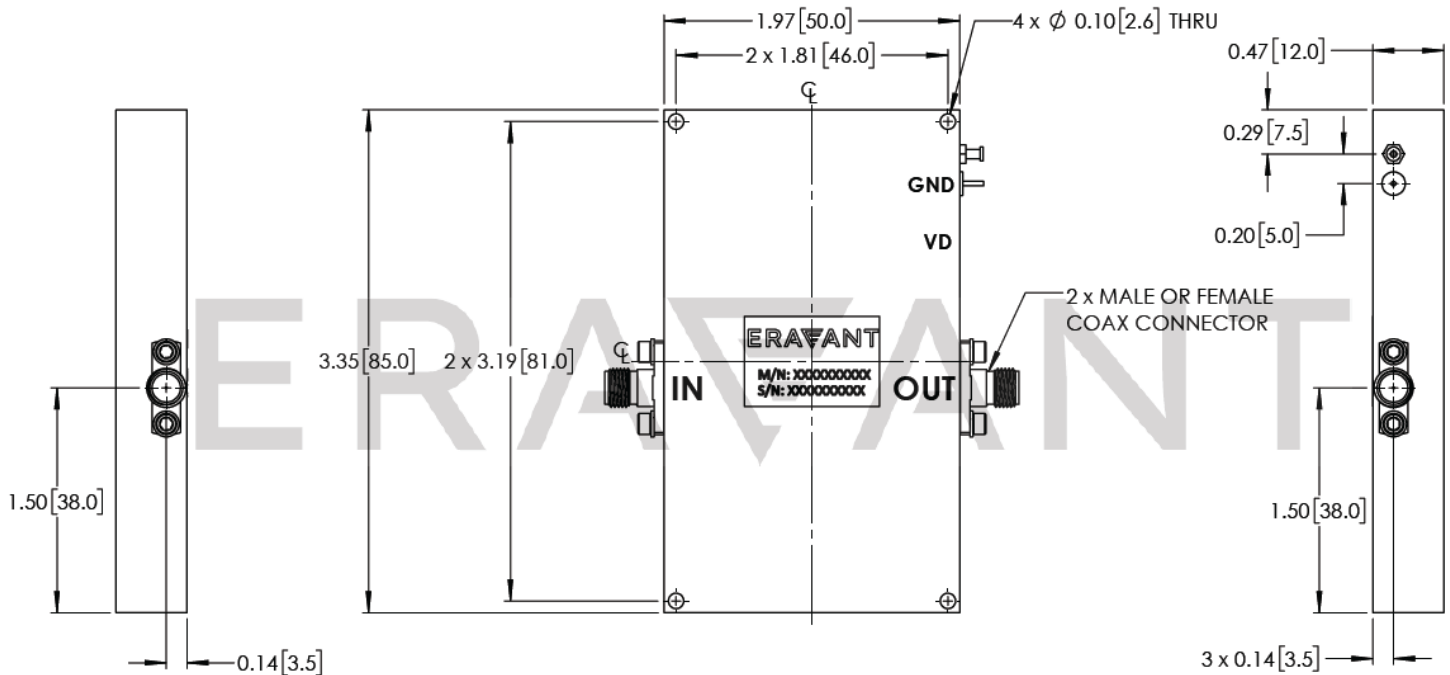
Bias: +12V<sub>DC</sub>/5 A



## SBP-2733134036-KFKF-E3

### 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.
- Eravant reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

### 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. Eravant M/N **SUA-95-S2-4** is recommended heat-sink for this amplifier.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **Eravant torque wrench, model SCH-08008-S1, is highly recommended.**

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