

SBP-1834534030-2F2F-EP

18 to 45 GHz Power Amplifier, 40 dB Gain, +30 dBm P_{1dB}

SBP-1834534030-2F2F-EP is a power amplifier with a typical small gain of 40 dB and a nominal P_{1dB} of +30 dBm across the frequency range of 18 to 45 GHz. The DC power requirement for the amplifier is +12 V_{DC}/5.5 A. The mechanical configurations is an inline structure with 2.4 mm (F) connector as its input port and output port. Other port configurations, such as 2.4 mm (M) connectors for either the input or output port, are also available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	18 GHz		45 GHz
Small Signal Gain		40 dB	
P _{1dB}		+30 dBm	
P _{sat}		+33 dBm	
OIP ₃		41 dBm	
P _{in}			+5 dBm
Input Return Loss		10 dB	
Output Return Loss		10 dB	
DC Supply Voltage		+12 V _{DC}	+15 V _{DC}
DC Supply Current		5.5 A	
Supply Voltage to Fan		+12 V _{DC} /0.6 A	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification
Input	2.4 mm Female
Output	2.4 mm Female
Power Supply	Solder Pin
Case Material	Aluminum
Finish	Gold Plated
Size	2.99" (L) X 3.15" (W) X 3.43" (H)
Outline	BP-HC-H5

ECCN

3A001.b.4

FEATURES

- Class AB GaAs Technique
- Broadband Performance
- High Gain
- High Output Power

APPLICATIONS

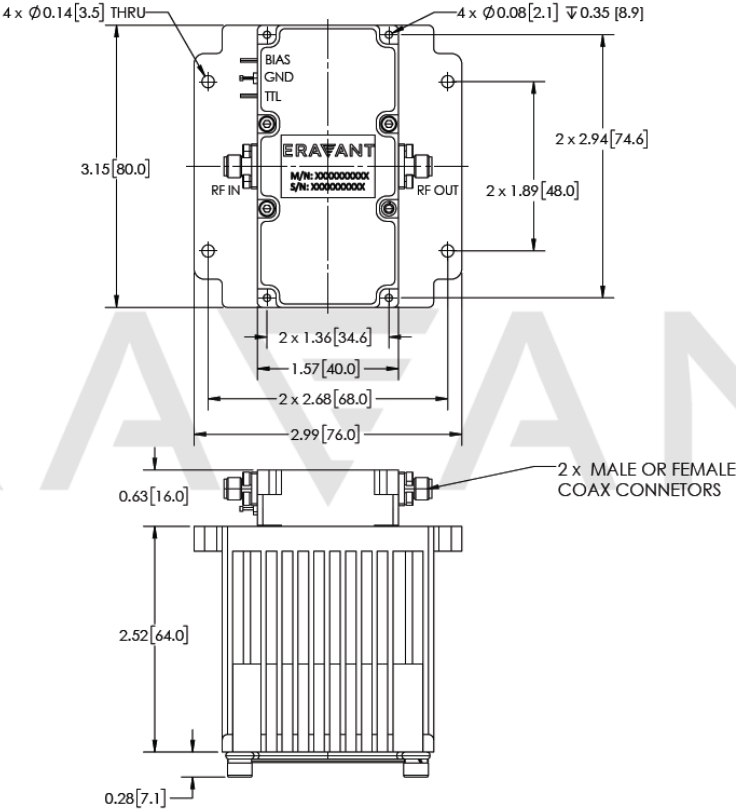
- Radar Systems
- Communication Systems
- Test Equipment

SUPPLEMENTAL DETAILS



SBP-1834534030-2F2F-EP

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.
- 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 SCH-08008-S1 is highly recommended.