SBP-3433735038-KF28-E3

34 to 37 GHz Power Amplifier, 50 dB Gain, +38 dBm P1dB

Description:

Model SBP-3433735038-KF28-E3 is a power amplifier with a typical small signal gain of 50 dB and a nominal P_{1dB} of +38 dBm across the frequency range of 34 to 37 GHz. The DC power requirement for the amplifier is +12 V_{DC}/5 A. The RF input is a 2.92 mm female connector and the output is a WR-28 Uni-Guide[™] waveguide. Other port configurations, such as male K connectors for either the input or output port, are also available under different model numbers.



Features:

- High Gain
- Good Gain Flatness
- High Output Power

Electrical Specifications:

Applications:

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

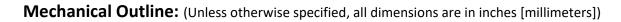
Parameter	Minimum	Typical	Maximum
Frequency	34 GHz		37 GHz
Gain		50 dB	
Gain Flatness		±3 dB	
P _{1dB}		+38 dBm	
P _{sat}		+40 dBm	
P _{in}			0 dBm
Input Return Loss		9 dB	
Output Return Loss		9 dB	
DC Voltage		+12 V _{DC}	+15 V _{DC}
DC Supply Current		5 A	
Specification Temperature		+25 °C	
Operating Temperature	0°C	/	+50 °C

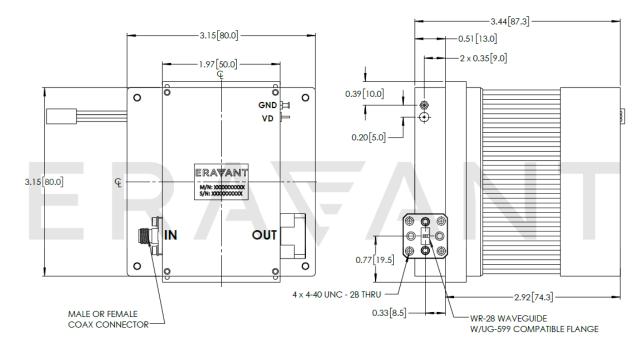
Mechanical Specifications:

Item	Connector	
Input	K(F)	
Output	WR-28 UniGuide™ Waveguide with UG-599/U Flange	
Bias	Solder Pin	
Case Material	Aluminum	
Finish	Gold Plated	
Size	3.15" (W) X 3.15" (L) X 3.44" (H)	
Outline	BP-ZA-2CW-2-H	



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Note:

- Eravant reserves the right to change the information presented without notice.
- The amplifier employs Eravant's trademarked and patent pending technology, UniGuide[™], as its waveguide interfaces. The orientation of the input and the output waveguides can be specified through corresponding model numbers. For example, the model number for a coax output would be SBP-3433735038-KFKF-E3 instead of SBP-3433735038-KF28-E3 which indicates Waveguide output.
- 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 +25 °C. Use proper heatsink or fan if necessary. Eravant M/N **SUA-95-S2-4** is recommended heat-sink for this amplifier
- Any foreign objects in the waveguide will degrade the performance and/or damage the device
- 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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