SBB-1834533022-2F2F-S1

Broadband Amplifier, 18 to 45 GHz, 30 dB Gain 6.0 dB Noise Figure, +22 dBm P-1dB

SBB-1834533022-2F2F-S1 is a broadband amplifier with a typical small signal gain of 30 dB, a typical P-1dB of 22 dBm and a nominal noise figure of 6.0 dB across the frequency range of 18 to 45 GHz. The DC power requirement for the amplifier is +8 VDC/800 mA. The RF connectors are 2.4 mm female connectors for input and output. Other port configurations are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	18 GHz		45 GHz
Small Signal Gain		30 dB	
Noise Figure		6 dB	
P-1dB		+22 dBm	
P _{Sat}		+23 dBm	
Pin			+15 dBm
Input Return Loss		9 dB	
Output Return Loss		9 dB	
DC Voltage	+6 V _{DC}	+8 V _{DC}	+15 V _{DC}
DC Supply Current		800 mA	
Specification Temperature		+25 °C	
Operating Temperature	0 °C		+50 °C

Mechanical Specifications:

Item	Specification	
Input Port	2.4 mm Female	
Output Port	2.4 mm Female	
Bias	Solder Pin	
Case Material		
Finish	Gold Plated	
Size	1.20" (L) x 1.20" (W) x 0.50" (H)	
Outline	BG-SC-1	

1/2

ECCN EAR99

FEATURES

- Broadband Coverage
- Low Noise Figure
- **High Output Power**

APPLICATIONS

- 5G Systems
- **Communication Systems** •
- **RF Microwave & VSAT**

SUPPLEMENTAL DETAILS

Advanced Rev 1.0

- Test Equipment





SBB-1834533022-2F2F-S1

ERAWANT

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



NOTE:

RF CONNECTORS (INPUT & OUTPUT): SMA, K, 2.4MM, OR V MALE OR FEMALE

NOTE:

- 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.
- Exceeding the maximum bias voltage of +15 VDC will cause amplifier overheating and result the instability.
- 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.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.