

50 MHz to 18 GHz, Broadband Amplifier using USB Control with 10 dBm, 12 dB Gain and SMA

SBUA-180-12-010-SMA is a broadband amplifier covering 50 MHz to 18 GHz. The amplifier has a 12 dB of Typical Gain, a Gain Flatness of +/- 2.5 dB typ and a P1dB of +10 dBm typ. The unit uses a USB connector for power.



Electrical Specifications (TA = +25°C)

Description	Min	Typ	Max	Unit
Frequency Range	0.05		18	GHz
Gain		12		dB
Gain Flatness		±2.5		dB
P1dB		+10		dBm
Noise Figure		4.5		dB
Input VSWR		2.3:1		
Output VSWR		2.3:1		
Operating Temperature Range (OTR)	-40		+85	°C

Configuration

- Connector 1
- Connector 2

SMA Female
SMA Female

Environmental Specifications

Temperature

Operating Range
Storage Range

-40 to +85 deg C
-55 to +125 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Features:

- 0.05 GHz to 18 GHz Frequency Range
- P1dB: 10 dBm typ
- Small Signal Gain: 12 dB typ
- Gain Flatness: ±2.5 dB typ
- Noise Figure: 4.5 dB typ
- 50 Ohm Input and Output Matched
- Unconditionally Stable
- USB type a plug DC Positive Supply
- Built-in Voltage Regulator

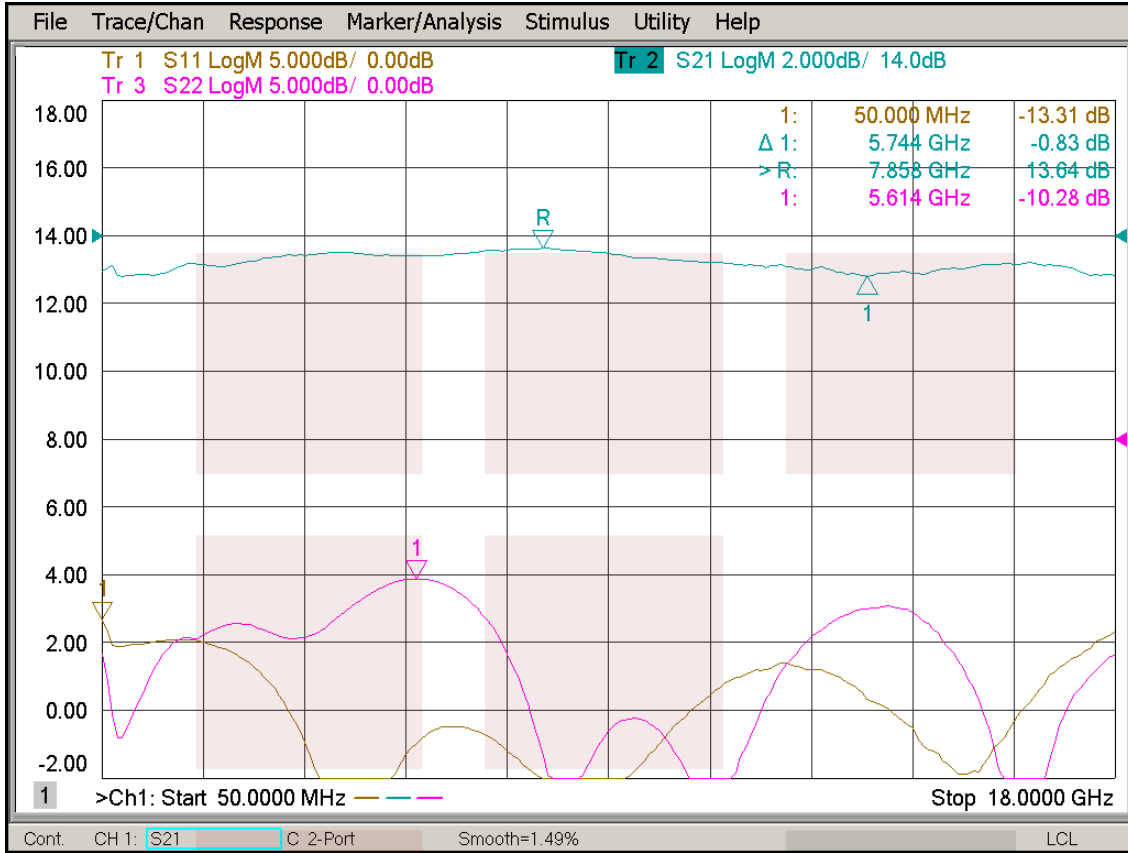
Applications:

- Laboratory Applications
- R&D Labs
- Military Radio
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- Wireless Communication
- Microwave Radio Systems
- Cellular Base Stations
- Low Noise Amplifier
- General Purpose Amplification
- General Purpose Wireless
- Wideband Gain Block
- IF Amplifier/RF Driver Amplifier
- RF Wideband Front Ends
- RF Pre-amplification

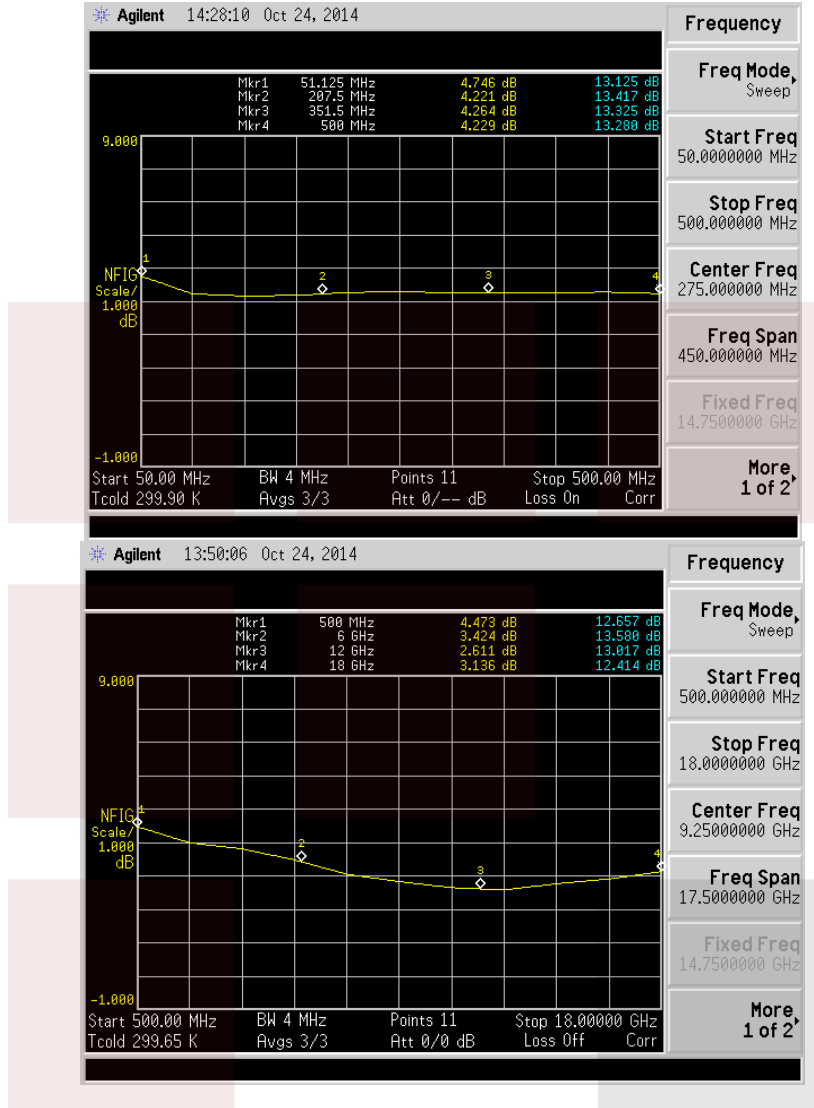
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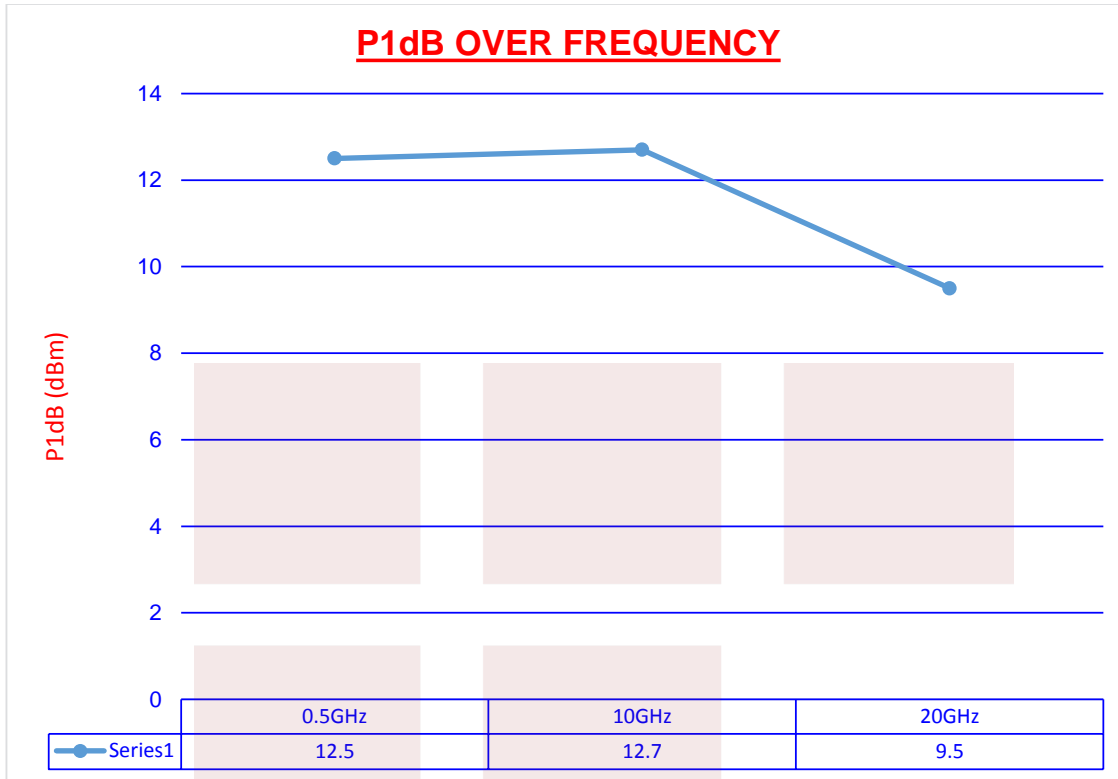
Typical Performance Data

Gain & Return Loss



Noise Figure



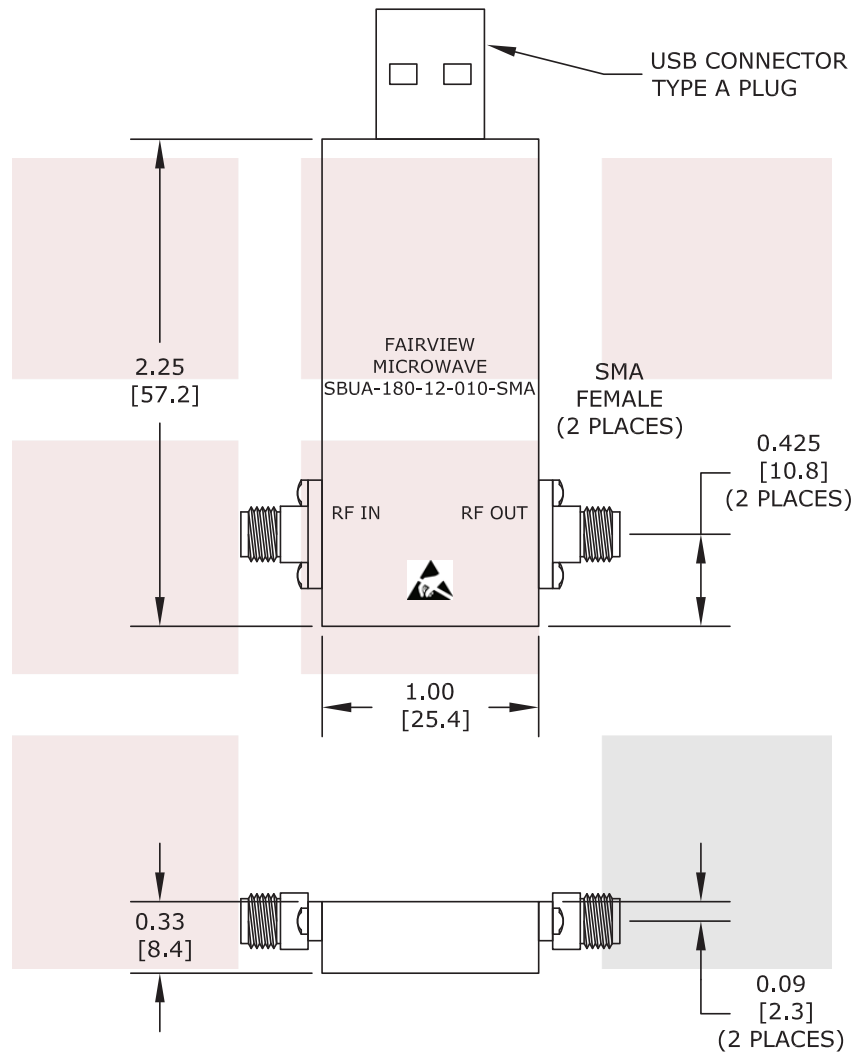


50 MHz to 18 GHz, Broadband Amplifier using USB Control with 10 dBm, 12 dB Gain and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [50 MHz to 18 GHz, Broadband Amplifier using USB Control with 10 dBm, 12 dB Gain and SMA SBUA-180-12-010-SMA](http://www.fairviewmicrowave.com/50-mhz-18-ghz-broadband-amplifier-usb-control-sbua-180-12-010-sma-p.aspx)

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TITLE 50 MHz to 18 GHz, Broadband Amplifier using USB Control with 10 dBm, 12 dB Gain and SMA		DWG NO SBUA-180-12-010-SMA		CAGE CODE 3FKR5	
CAD FILE 032614 SHEET		SCALE N/A		SIZE A 150	