

SBBA-060-44-01-SMA DATA SHEET

2 GHz to 6 GHz, 44 dB Gain Broadband High Gain Amplifier with 1 Watt and SMA

SBBA-060-44-01-SMA is a 1W wideband coaxial power amplifier operating in the 2 to 6 GHz frequency range. The amplifier offers 30 dBm min of P1db and high 44 dB minimal small signal gain with the excellent gain flatness of \pm 1.0dB max and an outstanding output IP3 performance of 39 dBm. This excellent technical performance is achieved through the use of hybrid MIC design and advanced GaAs PHEMT devices. The amplifier requires typically a +12V DC power supply. The connectorized SMA module is unconditionally stable and includes built-in voltage regulation, bias sequencing, and reverse bias protection for added reliability. The amplifier operates over the temperature range of -55°C and +85°C.

Electrical Specifications (TA = +25°C, DC Voltage = 15Volts, DC Current = 1,050mA)

Description	Min		Гур	Max	Unit
Frequency Range	2			6	GHz
Gain			44		dB
Gain Flatness			±1		dB
P1dB	+30				dBm
IP3			+39		dBm
Reverse Isolation			50		dB
Noise Figure			5	5.5	dB
Input VSWR				2:1	
Output VSWR				2:1	
Operating DC Voltage	11			15	Volts
Operating DC Current		1	,050		mA
Operating Temperature Ra	ange (OTR) -55			+85	°C

Absolute Maximum Rating

Parameter		Rating		Units	
Source Voltage			+15	Volts	
RF input Power			+17	dBm	
Operating Temperature (base-plate)		-30 to +70		°C	
Storage Temperature		-55	5 to +85	°C	

ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Configuration

Connector 1

Connector 2

SMA Female SMA Female

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

RoHS Compliant

Yes



Features:

- 2 GHz to 6 GHz Frequency Range
- P1dB: 30 dBm min
- High Small Signal Gain: 44 dB Typical
- Gain Flatness: ±1.0 dB
- High output IP3: 39 dBm
- Noise Figure: 5 dB typical
- Reverse Isolation: 50 dB
- 50 Ohms Input and Output Matched
- -55 to +85°C Operating Temperature
- Unconditionally Stable
- Regulated Supply & Bias Sequencing
- Hermetically Sealed Module
 Overveltage External
- Overvoltage External Protection for Easy Repair

Applications:

- Electronic Warfare
- Electronic Countermeasures
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communication
- Microwave Radio Systems
- Driver Amplifier
- Driver Ampliner

High Power Output Amplifier

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com

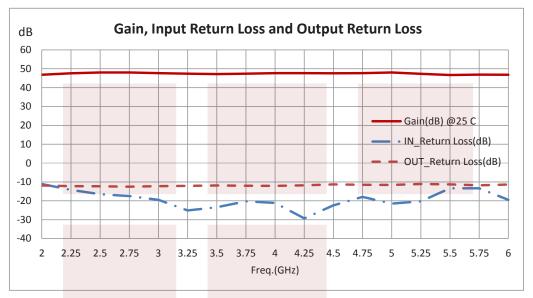


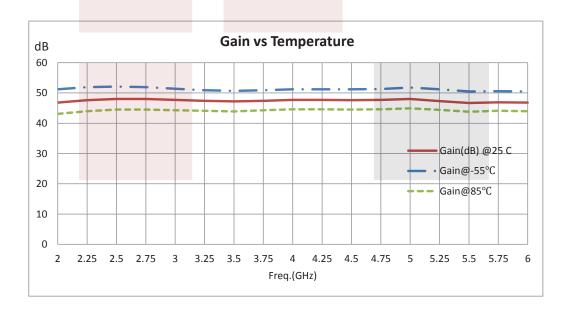
Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.
- Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

Power Data

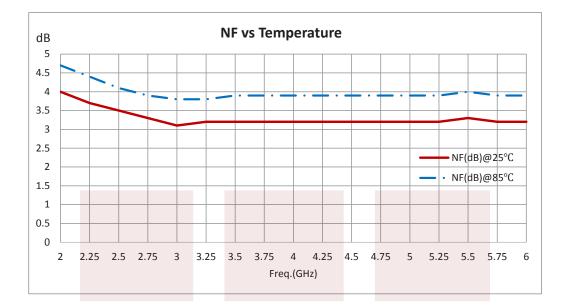


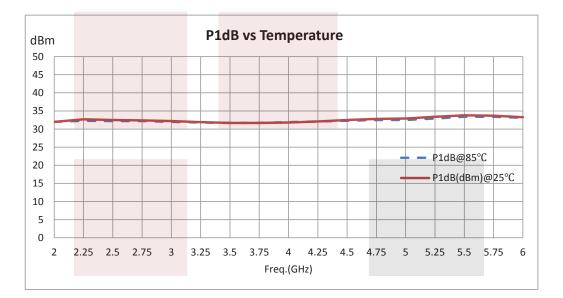


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2 GHz to 6 GHz, 44 dB Gain Broadband High Gain Amplifier with 1 Watt and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 2 GHz to 6 GHz, 44 dB Gain Broadband High Gain Amplifier with 1 Watt and SMA SBBA-060-44-01-SMA

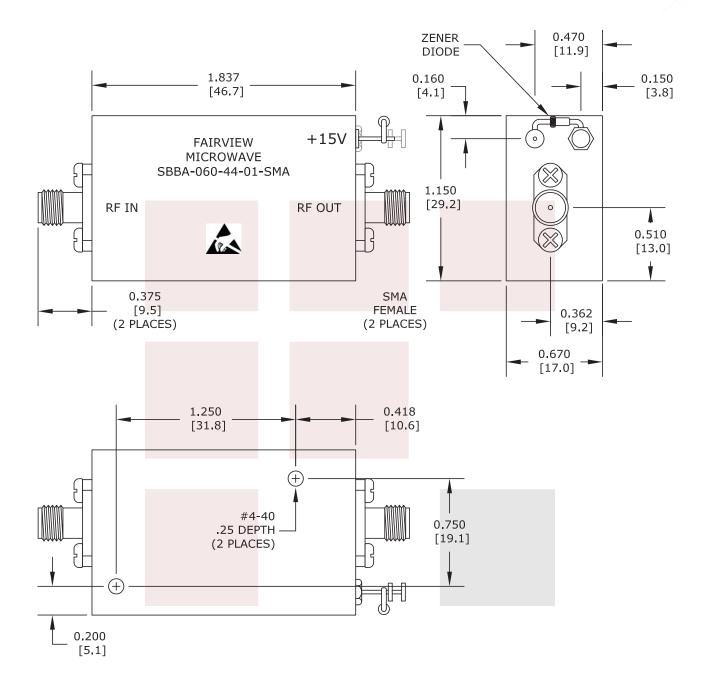
URL: http://www.fairviewmicrowave.com/2-6-ghz-broadband-high-gain-amplifier-sbba-060-44-01-sma-p.aspx

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NOTE:

HEAT SINK REQUIRED FOR PROPER OPERATION, UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

FAIRVIEW MICROWAVE INC.	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].						
TITLE 2 GHz to 6 GHz, 44 dB Gain Broadband High Gain Amplifier with 1 Watt and SMA	DWG NO SBBA-060-44-01-SMA				CAGE CODE 3FKR5		
	CAD FILE 050914	SHEET	SCALE	E N/A	SIZE A	2233	

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