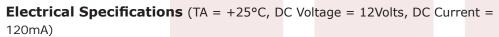


SPA-040-26-002-SMA DATA SHEET

26 dB Gain Block Amplifier Operating From 50 MHz to 4 GHz with 23 dBm P1dB and SMA

The SPA-040-26-002-SMA is wideband general purpose RF coaxial gain block amplifier operating in the 0.05 GHz to 4 GHz frequency range. The amplifier offers 23 dBm of P1dB, 26 dB of Gain, IP3 of 35 dBm. This exceptional technical performance is achieved through the use of hybrid MIC design and advanced GaAs PHEMT devices. This gain block amplifier requires only a single positive supply, typically a +12V DC power supply and includes built-in voltage regulation, is unconditionally stable and operates over the temperature range of -40°C and +75°C.



Description	Min	Тур	Max	Unit
Frequency Range	0.05		4	GHz
Small Signal Gain	24	26	28	dB
Gain Flatness		±1	±1.25	dB
Gain Variance at OTR*			±1	dB
Output at 1 dB Compres	sion Point	+23		dBm
Output 3rd Intercept Poi	nt +32	+35		dBm
Noise Figure		5	6	dB
Input VSWR		1.6:1	1.8:1	
Output VSWR		1.6:1	1.8:1	
Reverse Isolation	45	55		dB
Operating DC Voltage	11.5	12	13	Volts
Operating DC Current		120	220	mA
Operating Temperature F	Range -40		+75	°C

^{*}OTR = Base Plate Operating Temperature Range

Absolute Maximum Rating

Parameter	Rating	Units	
Source Voltage	+13	Volts	
RF input Power	+10	dBm	
Operating Temperature (base-plate)	-40 to +75	°C	
Storage Temperature	-55 to +125	°C	



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

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:

- 50 MHz to 4 GHz Frequency Range
- P1dB: 23 dBm
- High Small Signal Gain: 26 dB
- IP3: 35 dBm
- 50 Ohm Input and Output Matched
- -40 to +75°C Operating Temperature
- · Unconditionally Stable
- Single 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

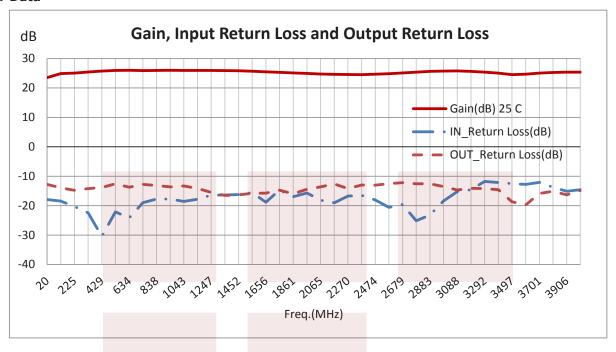
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com

sales@fairviewmicrowave.com



SPA-040-26-002-SMA DATA SHEET

Power Data



26 dB Gain Block Amplifier Operating From 50 MHz to 4 GHz with 23 dBm P1dB and SMA from Fairview Microwave is instock 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.

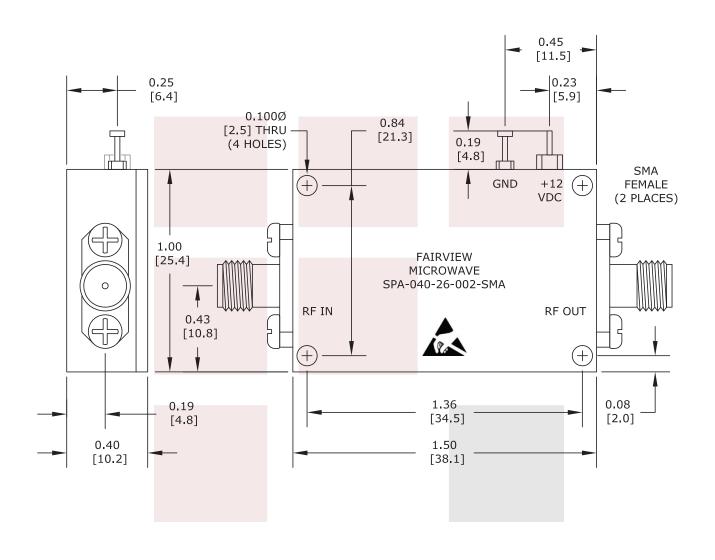
For additional information on this product, please click the following link: 26 dB Gain Block Amplifier Operating From 50 MHz to 4 GHz with 23 dBm P1dB and SMA SPA-040-26-002-SMA

URL: http://www.fairviewmicrowave.com/26-db-gain-block-amplifier-4-ghz-spa-040-26-002-sma-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



SPA-040-26-002-SMA DATA SHEET



FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].							
26 dB Gain Block Amplifier Operating From 50 MHz to 4 GHz with 23 dBm P1dB and SMA	DWG NO SPA-040-26-002-SMA			CAGE CODE 3FKR5				
	CAD FILE 082914	SHEET	SCALE N	/A SIZE A	2233			