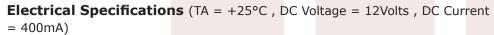


SPA-010-26-005-SMA DATA SHEET

Medium Power Amplifier at 600 mW Operating From 50 MHz to 1,000 MHz with 26 dB Gain and SMA

SPA-010-26-005-SMA is a 0.6W wideband coaxial power amplifier operating in the 50 to 1000 MHz frequency range. The amplifier offers 28 dBm of P1db and 26 dB (min) small signal gain with the excellent gain flatness of ± 0.75 dB. This performance is achived 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 -30°C and +70°C.



Description	Min	ı	Тур	Max	Unit
Frequency Range	50			1,000	MHz
Small Signal Gain			26		dB
Gain Flatness				±0.75	dB
P1dB	+27		+28		dBm
Output 3rd Intercept Poi	nt +36				dBm
Noise Figure			5		dB
Input VSWR				2:1	
Output VSWR				2:1	
Operating DC Voltage	11		12	15	Volts
Operating DC Current			400		mA
Operating Temperature Rai	nge -30			+70	°C

Absolute Maximum Rating

Paramete	r F	Rating	Units		
Source Voltage		+16	Volts		
RF input Power		+17	dBm		
Operating Temperature ((base-plate) -30	to +70	°C		
Storage Temperature	-55	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:

- 50 MHz to 1,000 MHz Frequency Range
- P1dB: 28 dBm Typical
- Small Signal Gain: 26 dB Typical
- Gain Flatness: ±0.75 dB max
- · Noise Figure: 5 dB
- 50 Ohm Input and Output Matched
- -30 to +70°C Operating Temperature
- · Unconditionally Stable
- Regulated Supply & Bias Sequencing
- · Hermetically Sealed Module
- Overvoltage External Protection for Easy Repair

Applications:

- Telecom Infrastructure
- Test Instrumentation
- Military & Space
- Communication Systems
- RF/Microwave Radio Systems
- · Driver Amplifier
- 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

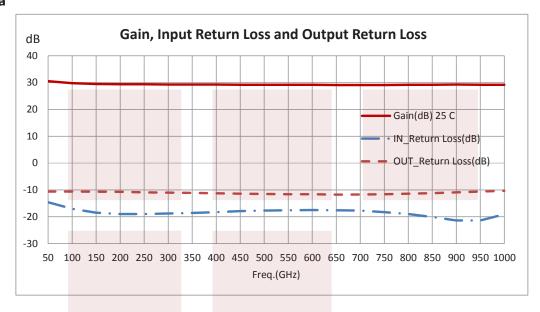


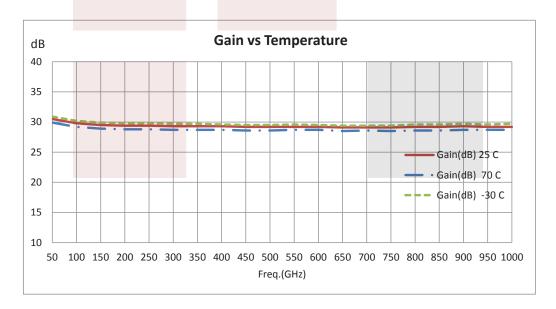
Plotted and Other Data

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.

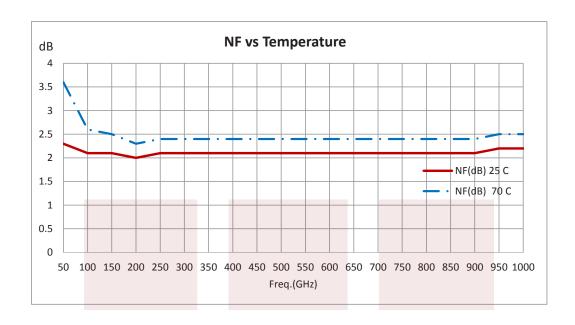
Power Data

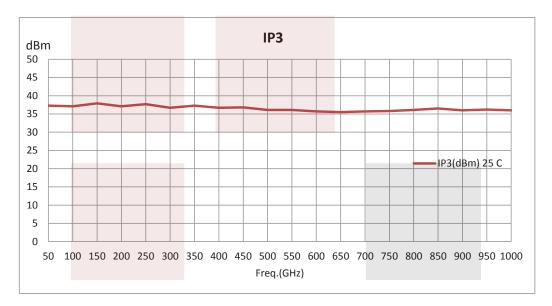






SPA-010-26-005-SMA DATA SHEET





Medium Power Amplifier at 600 mW Operating From 50 MHz to 1,000 MHz with 26 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.

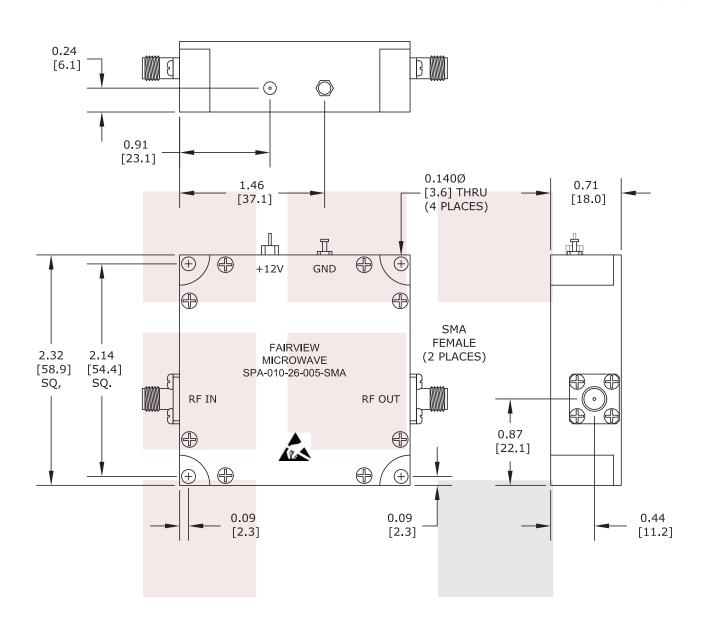
For additional information on this product, please click the following link: Medium Power Amplifier at 600 mW Operating From 50 MHz to 1,000 MHz with 26 dB Gain and SMA SPA-010-26-005-SMA

URL: http://www.fairviewmicrowave.com/medium-power-amplifier-600mw-26db-spa-010-26-005-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-010-26-005-SMA DATA SHEET



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

- 1 '	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].						
	ledium Power Amplifier at 600 mW Operating From	SPA-010-26-005-SMA				CAGE CODE 3FKR5		
	50 MHz to 1,000 MHz with 26 dB Gain and SMA	CAD FILE	050914	SHEET	SCAL	E N/A	SIZE A	2233