

SPA-035-08-05-SMA DATA SHEET

High Power Amplifier at 5 Watt P1dB Operating From 3.1 GHz to 3.5 GHz with 8 dB Gain and SMA

The SPA-035-08-05-SMA is a wideband linear power coaxial amplifier operating in the 3.1 to 3.5 GHz frequency range. The amplifier offers 37 dBm typ of P1dB power and high 8 dB typical small signal gain with the gain flatness of ± 0.5 dB typical. The amplifier provides 1 W of Linear COFDM Power. 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, includes built-in Voltage regulation. The connectorized SMA module is unconditionally stable and operates over the temperature range of -10°C and +80°C.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts)

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Description	Min	Тур	Max	Unit
Frequency Range	3.1		3.5	GHz
Small Signal Gain		8		dB
Gain Flatness		±0.5		dB
P1dB	+37			dBm
Input Return Loss		-15	-14	dB
Operating DC Voltage		12	14	Volts
Quiescent Current		750		mA
Operating Temperature Rar	nge -10		+80	°C

Configuration

- Connector 1
- Connector 2

Environmental Specifications

Temperature Operating Range Storage Range SMA Female SMA Female

-10 to +80 deg C -65 to +150 deg C



Features:

- 3.1 GHz to 3.5 GHz Frequency Range
- P1dB 37 dBm typ
- Small Signal Gain: 8 dB typ
- Gain Flatness: ±0.5 typical
- 50 Ohms Input and Output Matched
- Unconditionally Stable
- Regulated Supply & Bias Sequencing

Applications:

- L-band Military Radar
- Commercial Air Traffic Control
- Weather & Earth Observation Satellites
- Radar & Communication Systems
- High Gain Driver Power Amplifier
- High Gain Output
 Power Amplifier

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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.
- · Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

High Power Amplifier at 5 Watt P1dB Operating From 3.1 GHz to 3.5 GHz with 8 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: High Power Amplifier at 5 Watt P1dB Operating From 3.1 GHz to 3.5 GHz with 8 dB Gain and SMA SPA-035-08-05-SMA

URL: http://www.fairviewmicrowave.com/high-power-amplifier-5watt-8db-spa-035-08-05-sma-p.aspx

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