

**IP3 37 dBm Linear Amplifier Linear Low Noise with
 1.5 dB NF Operating From 50 MHz to 1,000 MHz,
 15 dB Gain, 23 dBm P1dB and SMA**

SLIA-010-18-39-SMA is a High OIP3 Amplifier operating in the 50 MHz to 1000 MHz Frequency Range. The coaxial amplifier is unconditionally stable and can operate from 5 VDC to 12 VDC. The amplifier has OIP3 of 37 dBm typical and has a Gain of 15 dB typical.

Electrical Specifications (TA = +25°C, DC Voltage = 12Volts, DC Current = 85mA)

Description	Min	Typ	Max	Unit
Frequency Range	50		1,000	MHz
Small Signal Gain	14.5	15		dB
Gain Flatness		±0.7		dB
Output at 1 dB Compression Point		+23		dBm
Output 3rd Intercept Point		+37		dBm
Noise Figure		1.5		dB
Input VSWR		1.45:1		
Output VSWR		1.45:1		
Operating DC Voltage	5		12	Volts
Operating DC Current		85		mA

Mechanical Specifications

Size	
Length	1.38 in [35.05 mm]
Width	1.18 in [29.97 mm]
Height	0.5 in [12.7 mm]
Input Connector	SMA Female
Output Connector	SMA Female

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

RoHS Compliant	Yes
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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:

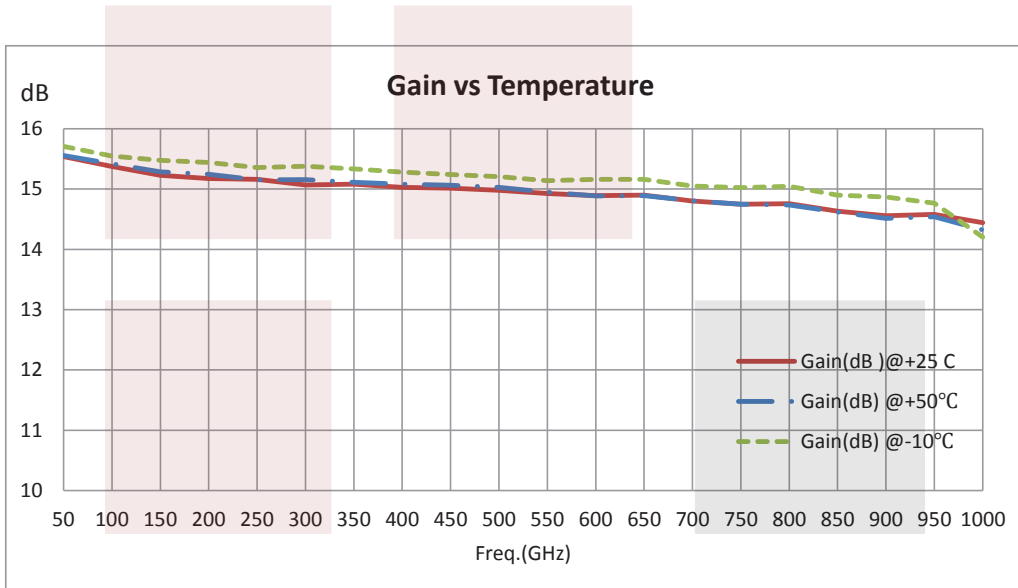
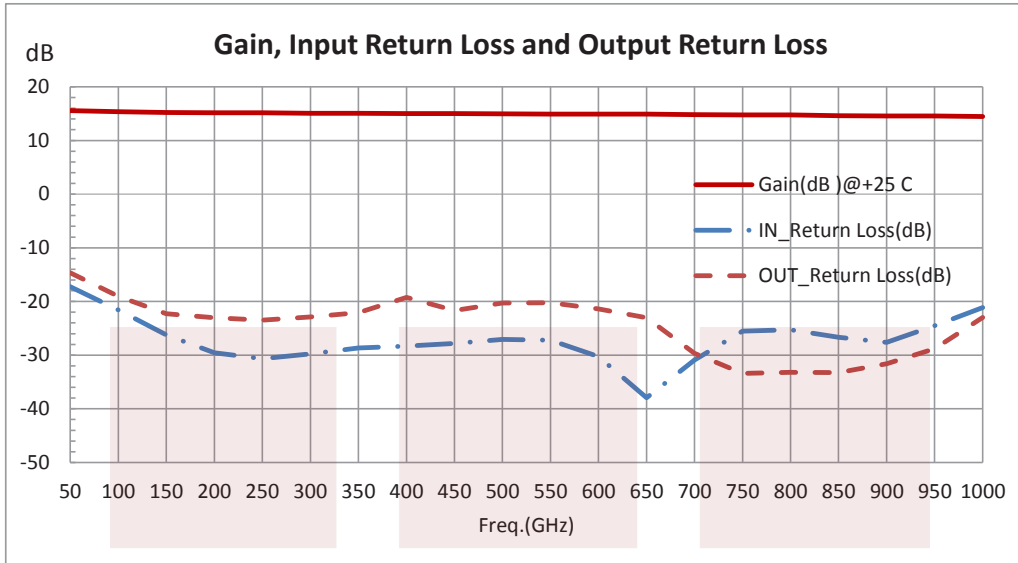
- 50 MHz to 1000 MHz Frequency Range
- Noise Figure 1.5 dB typ
- Gain 15 dB typ
- Gain Flatness +/- 0.7 dB typ
- OIP3 37 dBm typ

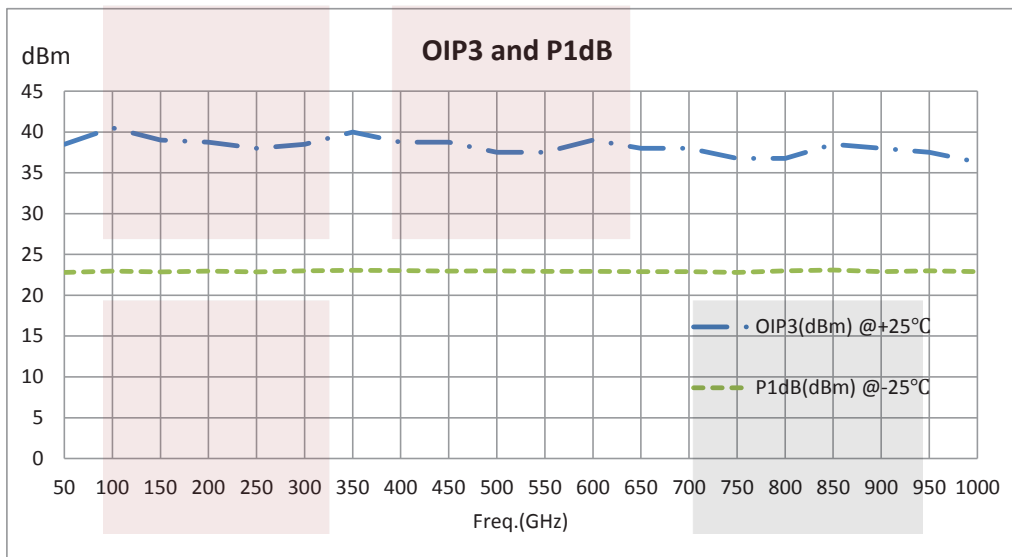
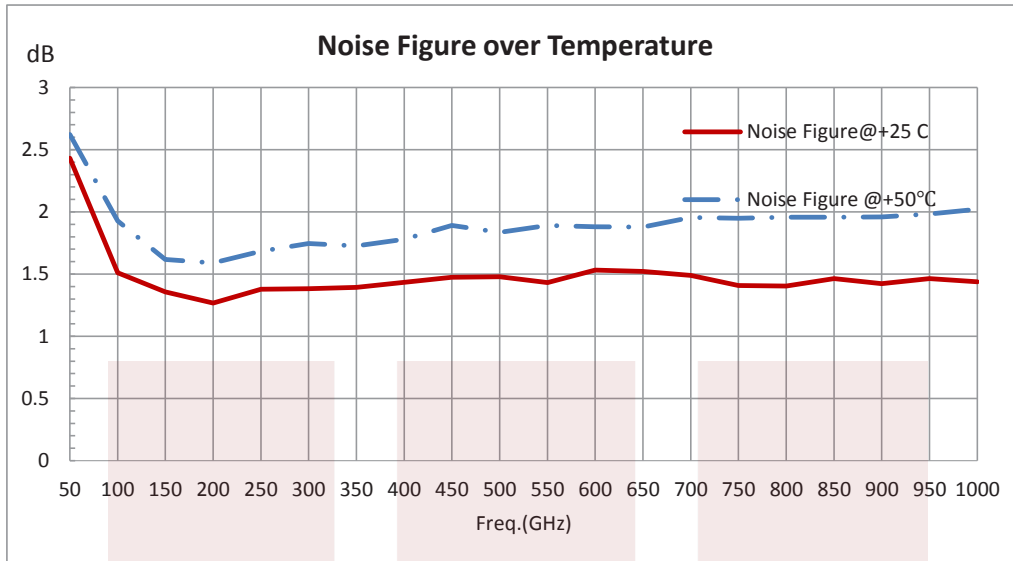
Applications:

- Low Noise Amp
- Cellular Communicaitons
- GSM
- UMTS
- Wireless Data
- RFID

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Typical Performance Data



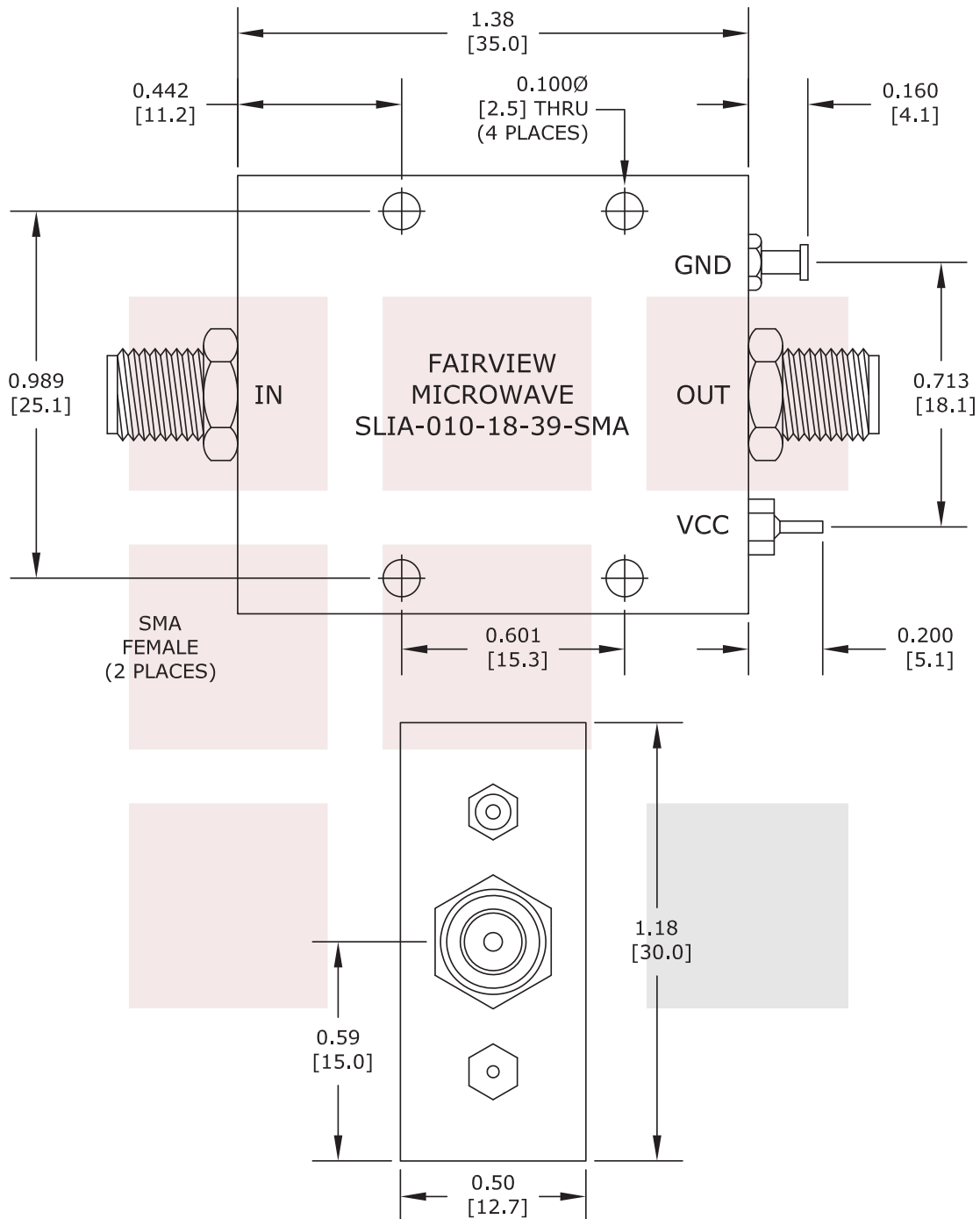


IP3 37 dBm Linear Amplifier Linear Low Noise with 1.5 dB NF Operating From 50 MHz to 1,000 MHz, 15 dB Gain, 23 dBm P1dB and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [IP3 37 dBm Linear Amplifier Linear Low Noise with 1.5 dB NF Operating From 50 MHz to 1,000 MHz, 15 dB Gain, 23 dBm P1dB and SMA SLIA-010-18-39-SMA](http://www.fairviewmicrowave.com/ip3-37-dbm-linear-amplifier-1.5-db-nf-slia-010-18-39-sma-p.aspx)

URL: <http://www.fairviewmicrowave.com/ip3-37-dbm-linear-amplifier-1.5-db-nf-slia-010-18-39-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.



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TITLE IP3 37 dBm Linear Amplifier Linear Low Noise with 1.5 dB NF Operating From 50 MHz to 1,000 MHz, 15 dB Gain, 23 dBm P1dB and SMA		DWG NO SLIA-010-18-39-SMA	CAGE CODE 3FKR5		
CAD FILE	043015	SHEET	SCALE	N/A	SIZE A 2233