Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

FMAM1019
DATA SHEET

40 dB Gain 0.8 dB NF Low Noise High Gain Amplifier Operating From 1 GHz to 2 GHz with 11 dBm P1dB and SMA

The FMAM1019 is a wideband low noise RF coaxial power amplifier operating in the 1 GHz to 2 GHz frequency range. The amplifier offers 0.8 dB noise figure typical, 11 dBm of P1dB and 40 dB small signal gain with gain flatness of ±1.0 dB. The low noise amplifier requires typically a +10V DC power supply and is unconditionally stable. The amplifier operates over the temperature range of -40°C and +85°C.

Electrical Specifications (TA = +25°C , DC Voltage = 10Volts , DC Current = 120mA)

Description	Min	Typ	Max	Unit
Frequency Range	1		2	GHz
Small Signal Gain	37	40		dB
Gain Flatness		±1		dB
Gain Variance at OTR*		1		dB
Output at 1 dB Compression Point		+11		dBm
Output 3rd Intercept Point	+22	+25		dBm
Noise Figure		0.8	1	dB
Input VSWR		1.7:1	2:1	
Output VSWR		1.6:1	2:1	
Spurious			-60	dBc
Operating DC Voltage	9	10	12	Volts
Operating DC Current	100	120	135	mA
Operating Temperature Range	-40		+85	°C

*OTR= Base Plate Operating Temperature Range

Absolute Maximum Rating

Parameter	Rating	Units
Source Voltage	+15	Volts
RF input Power	+13	dBm
DC Voltage at RF I/O	+25	Volts
Operating Temperature (base-plate)	-40 to +85	°C
Storage Temperature	-55 to +125	°C

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

Mechanical Specifications

Size

Length	1.5 in [38.1 mm]
Width	0.85 in [21.59 mm]
Height	0.375 in [9.53 mm]
Input Connector	SMA Female
Output Connector	SMA Female

Features:

- 1 GHz to 2 GHz Frequency Range
- Noise Figure: 0.8 dB typ
- P1dB: 11 dBm
- Flat Small Signal Gain: 40 dB
- Gain Flatness: ±1 .0 dB
- Gain Variance over OTR: ±1 .0 dB
- 50 Ohm Input and Output Matched
- -40 to 85°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

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Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-55 to +125 deg C

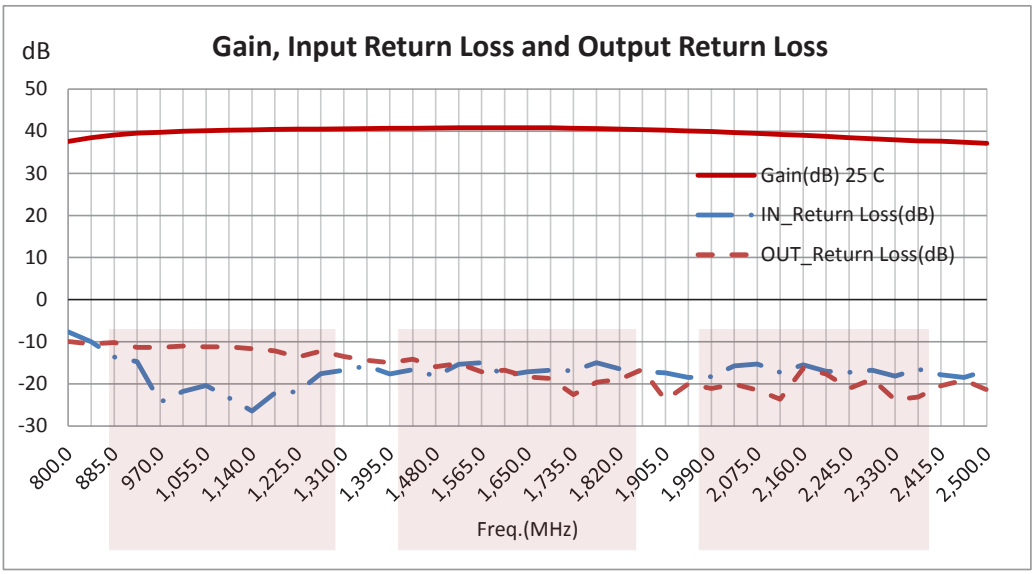
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

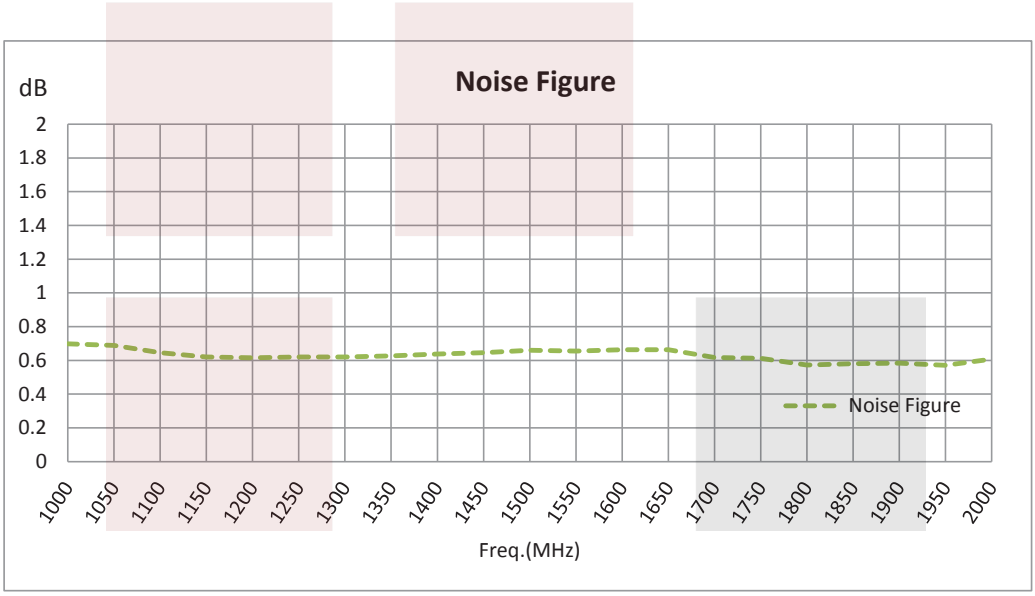
Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Typical Performance Data





40 dB Gain 0.8 dB NF Low Noise High Gain Amplifier Operating From 1 GHz to 2 GHz with 11 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: 40 dB Gain 0.8 dB NF Low Noise High Gain Amplifier Operating From 1 GHz to 2 GHz with 11 dBm P1dB and SMA FMAM1019

URL: http://www.fairviewmicrowave.com/40db-0.8db-nf-low-noise-high-gain-amplifier-fmam1019-p.aspx

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