

## 26.5 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm

The FMAM4022 is a broadband coaxial low noise amplifier, operating in the 26.5 to 40 GHz frequency range. The amplifier offers 20 dBm of P1dB typ and 30 dB small signal gain typ, with the gain flatness of  $\pm 2.0$  dB typ performance. This low noise amplifier requires only a single positive DC supply, in unconditionally stable, operates over the temperature range of  $-40^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ , and is Hermetically sealed.

### Electrical Specifications (TA= 25°C)

Description	Min	Typ	Max	Unit
Frequency Range	26.5		40	GHz
Gain		30		dB
Gain Flatness		$\pm 2$		dB
P1dB	+18	+20		dBm
Input Power			+0	dBm
Spurious		-70	-60	dBc
Noise Figure			6	dB
Input VSWR		2:1		
Output VSWR		2:1		
Operating DC Voltage	8		12	Vdc
Operating DC Current		350		mA
Operating Temperature Range (OTR)	-40		+50	$^{\circ}\text{C}$

### Mechanical Specifications

Size	
Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.6 in [15.24 mm]
Weight	0.11495 lbs [52.14 g]
Input Connector	2.92mm Female
Output Connector	2.92mm Female

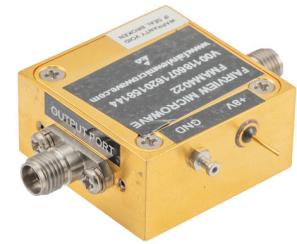
### Environmental Specifications

Temperature	
Operating Range	$-40$ to $+50$ deg C

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:



### Features:

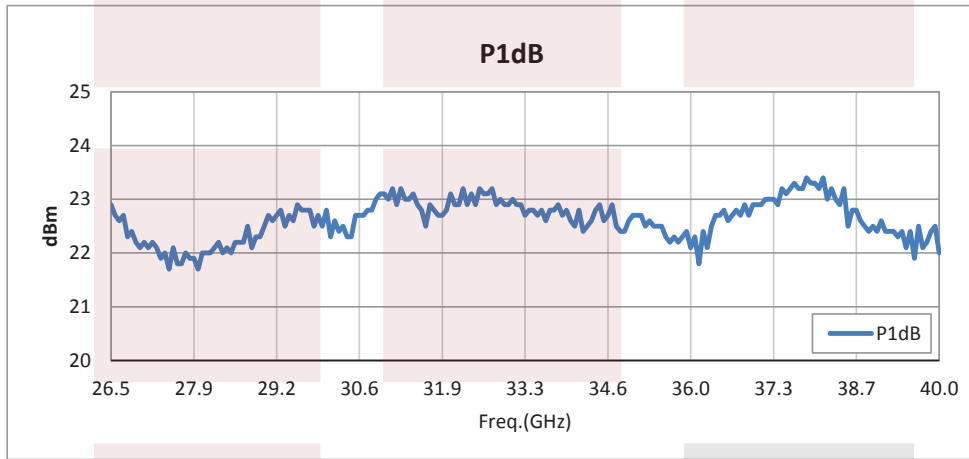
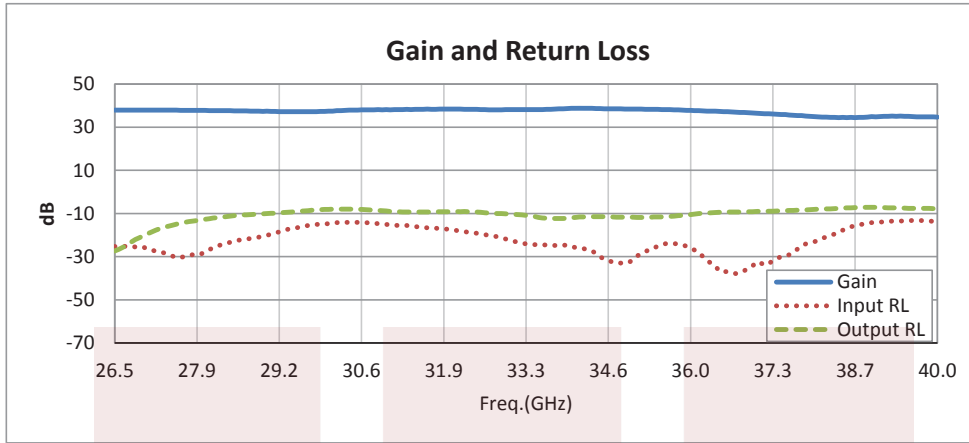
- 26.5 to 40 GHz Frequency Range
- P1dB: 18 dBm min
- Small Signal Gain: 30 dB typ
- Gain Flatness:  $\pm 2.0$  dB
- Noise Figure: 6 dB max
- 50 Ohm Input and Output Matched
- $-40$  to  $+50^{\circ}\text{C}$  Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Built-in DC Voltage Regulator

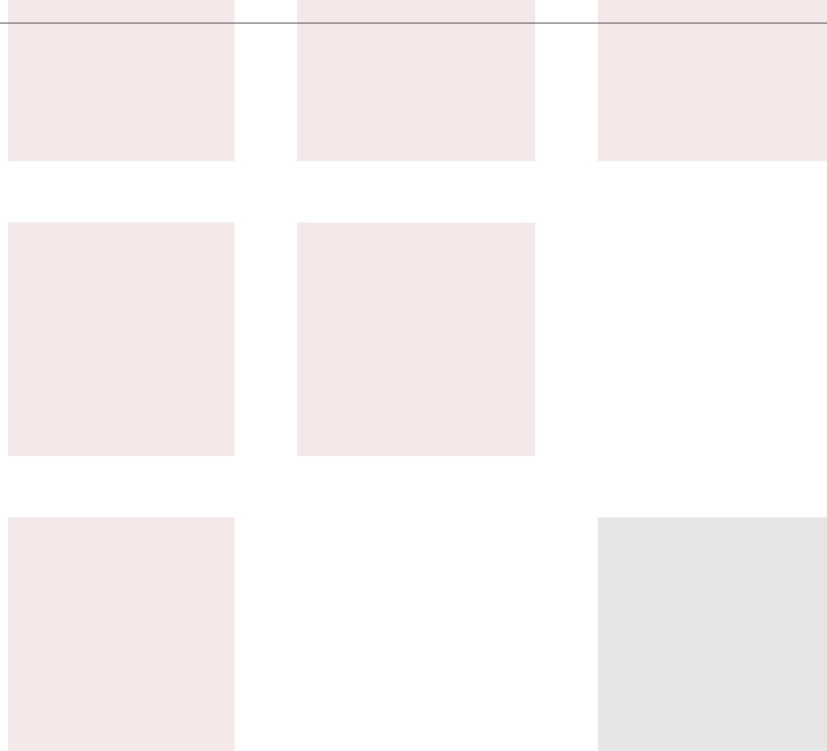
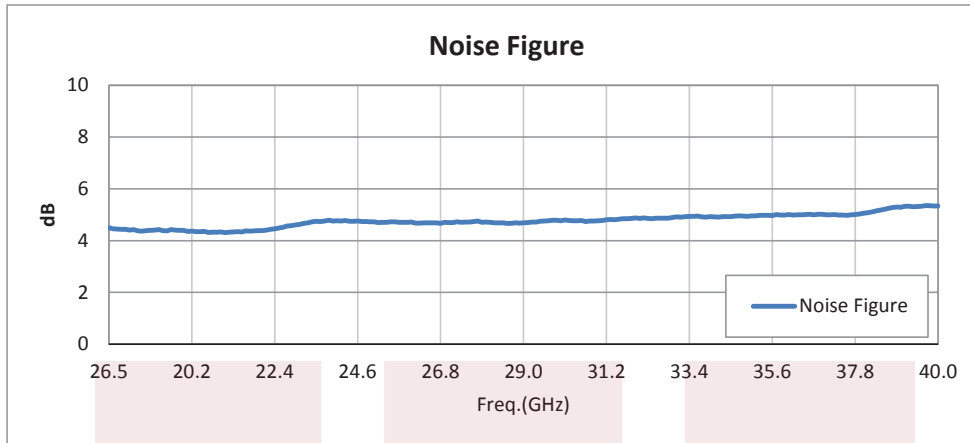
### Applications:

- Laboratory Applications
- R&D Labs
- Test Instrumentation
- Telecommunication

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**Typical Performance Data**





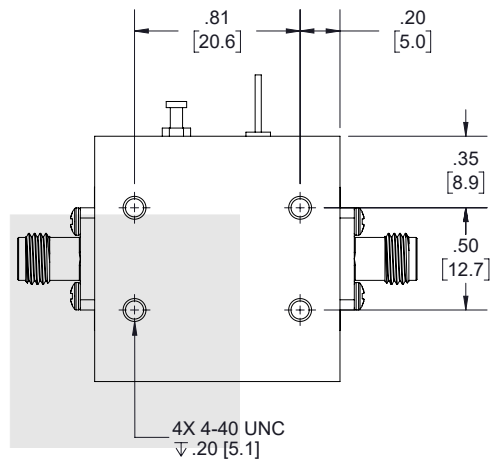
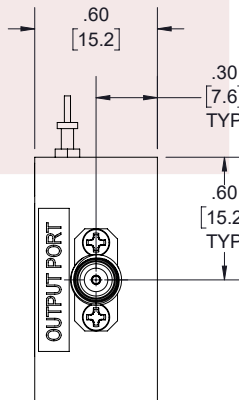
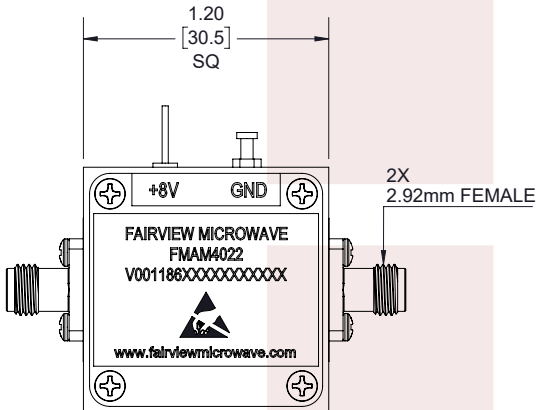
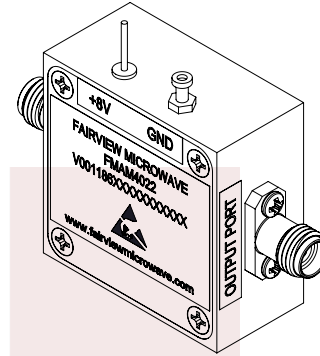
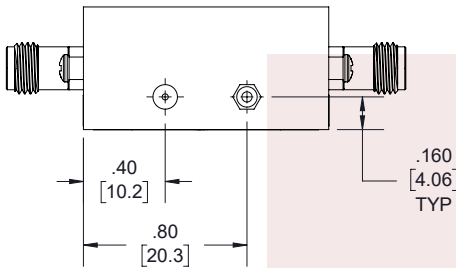
26.5 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [26.5 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm FMAM4022](#)

URL: <https://www.fairviewmicrowave.com/26.5-40-ghz-medium-power-broadband-amplifier-fmam4022-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/25/2020	T.GALLA



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TITLE

26.5 GHz to 40 GHz, Medium Power Broadband Amplifier with 20 dBm, 30 dB Gain and 2.92mm

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMAM4022	REV A
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T-Rev.D