



4.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 40 dB Gain and 2.92mm

The FMAM3305 is a broadband coaxial power amplifier, operating in the 18 to 40 GHz frequency range. This amplifier utilizes high power devices that provide excellent linearity and high gain. The amplifier offers 10 dBm of P1dB minimum and 40 dB small signal gain, with the gain flatness of ± 4 dB max. This power amplifier requires a ± 12 Volt DC supply, is unconditionally stable, operates over the temperature range of 0°C to 50°C.

Electrical Specifications (TA= 25°C, VDC1 = 12 Vdc)

Description	Min	Тур	Max	Unit
Frequency Range	18		40	GHz
Gain	40	44		dB
Gain Flatness			±4	dB
P1dB	+10	+11		dBm
Input Power			-10	dBm
Noise Figure		4	4.5	dB
Input VSWR		2.1:1	2.3:1	
Output VSWR		1.9:1	2.3:1	
Operating DC Voltage 1		12	13	Volts
Operating DC Current		250		mA
Operating Temperature F	Range (OTR) 0		+50	°C

Electrical Specification Notes:

No Series Capacitor at RF input. DC Voltage at RF Input may damage the amplifier. Heatsink is required before applying DC power

Absolute Maximum Rating

Parameter	Rating	
Max RF Input Power	-10 dBm	
Max Operating Voltage	+13 Volts	



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

Mechanical Specifications

Size Lengt

 Length
 1.27 in [32.26 mm]

 Width
 1.48 in [37.59 mm]

 Height
 0.35 in [8.89 mm]

 Weight
 0.077 lbs [34.93 g]

Input Connector Field Replaceable 2.92mm Female
Output Connector Field Replaceable 2.92mm Female



Features:

- 18 to 40 GHz Frequency Range
- P1dB: 10 dBm min.
- · Small Signal Gain: 40 dB min.
- Gain Flatness: ±4 dB max.
- 50 Ohm Input and Output Matched
- 0 to 50°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply
- Field Replaceable
 2.92mm Female

Applications:

- · Laboratory Applications
- R&D Labs
- Test Instrumentation
- Military & Space
- Communication Systems
- Satellite Communications
- Wireless Communications
- Unmanned Systems
- Microwave Radio Systems
- Low Noise Amplifier
- General Purpose Amplification
- RF Front Ends

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Environmental Specifications

Temperature

Operating Range 0 to $+50 \deg C$ Storage Range $-40 \cot +100 \deg C$

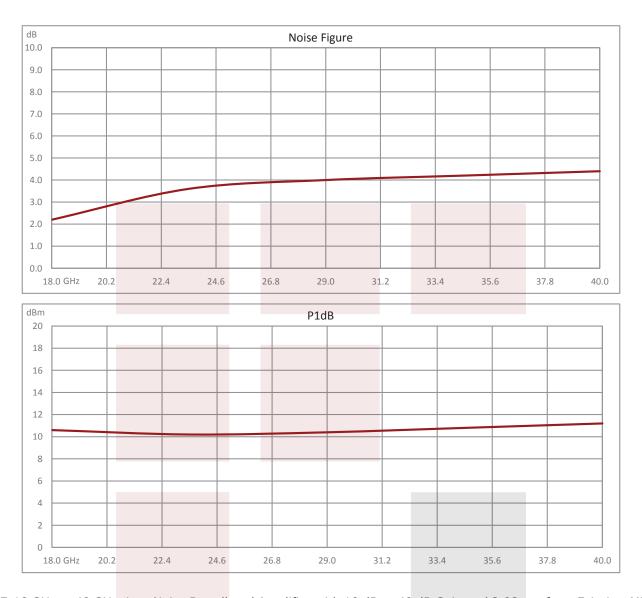
Humidity MIL-STD-202F, Method 103B, Condition B
Shock MIL-STD-202F, Method 213B, Condition B
Vibration MIL-STD-202F, Method 204D, Condition B
Altitude MIL-STD-202F, Method 105C, Condition B

Compliance Certifications (see product page for current document)









4.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 40 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.

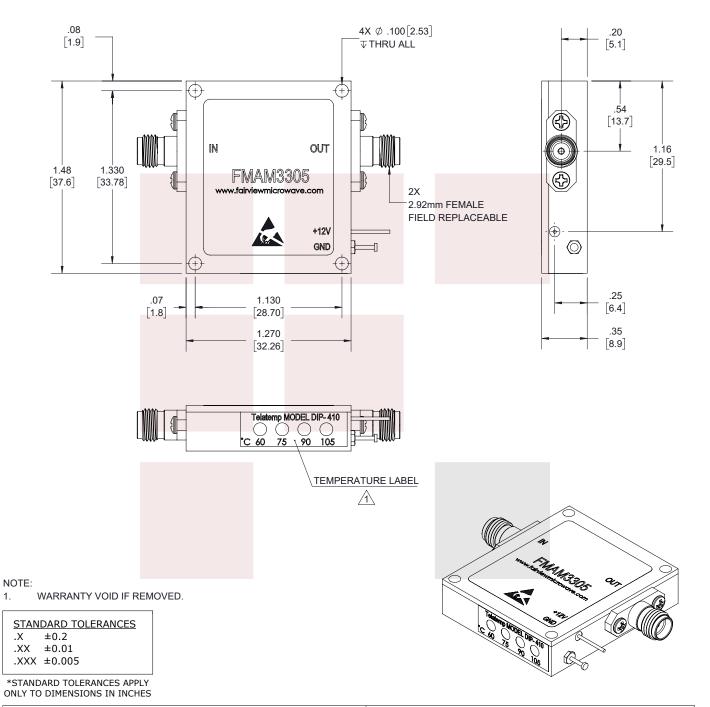
For additional information on this product, please click the following link: 4.5 dB NF, 18 GHz to 40 GHz, Low Noise Broadband Amplifier with 10 dBm, 40 dB Gain and 2.92mm FMAM3305

URL: https://www.fairviewmicrowave.com/18-40-ghz-low-noise-broadband-amplifier-fmam3305-p.aspx

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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].

DWG NO

FMAM3305

CAGE CODE

3FKR5

CAD FILE 05/15/18 SHEET 1 OF 1 SCALE N/A SIZE A 7361