

WR-12 Waveguide Power Amplifier 80.5 GHz to 86.5 GHz Frequency Range E Band With 20 dB Gain And 19 dBm Psat Using UG-387/U Flange

FMAM4024 is an E Band Waveguide Power Amplifier, operating in the 80.5 to 86.5 GHz frequency range. The amplifier offers +19 dBm Minimum of Psat and 20 dB small signal gain min performance. This amplifier requires only a single positive DC supply, is unconditionally stable. The gold plated compact package design uses integrated WR-12 with UG-387/U-MOD waveguide flange interfaces for the RF ports.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency	80.5		86.5	GHz
Small Signal Gain	20			dB
Saturated Output Power	+19			dBm
Input Return Loss			-4	dB
Output Return Loss			-4	dB
Operating DC Voltage	8		12	Volts
Operating DC Current		700		mA

Mechanical Specifications

Size	
Length	1.6 in [40.64 mm]
Width	1 in [25.4 mm]
Height	0.6 in [15.24 mm]

Configuration

Design	Power
DC Bias Connector	Standard

Description	Connector 1	Connector 2
Type	WR-12	WR-12
Flange	UG-387/U	UG-387/U

Mechanical Specification Notes:

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.

Environmental Specifications

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

Plotted and Other Data

Notes:



Features:

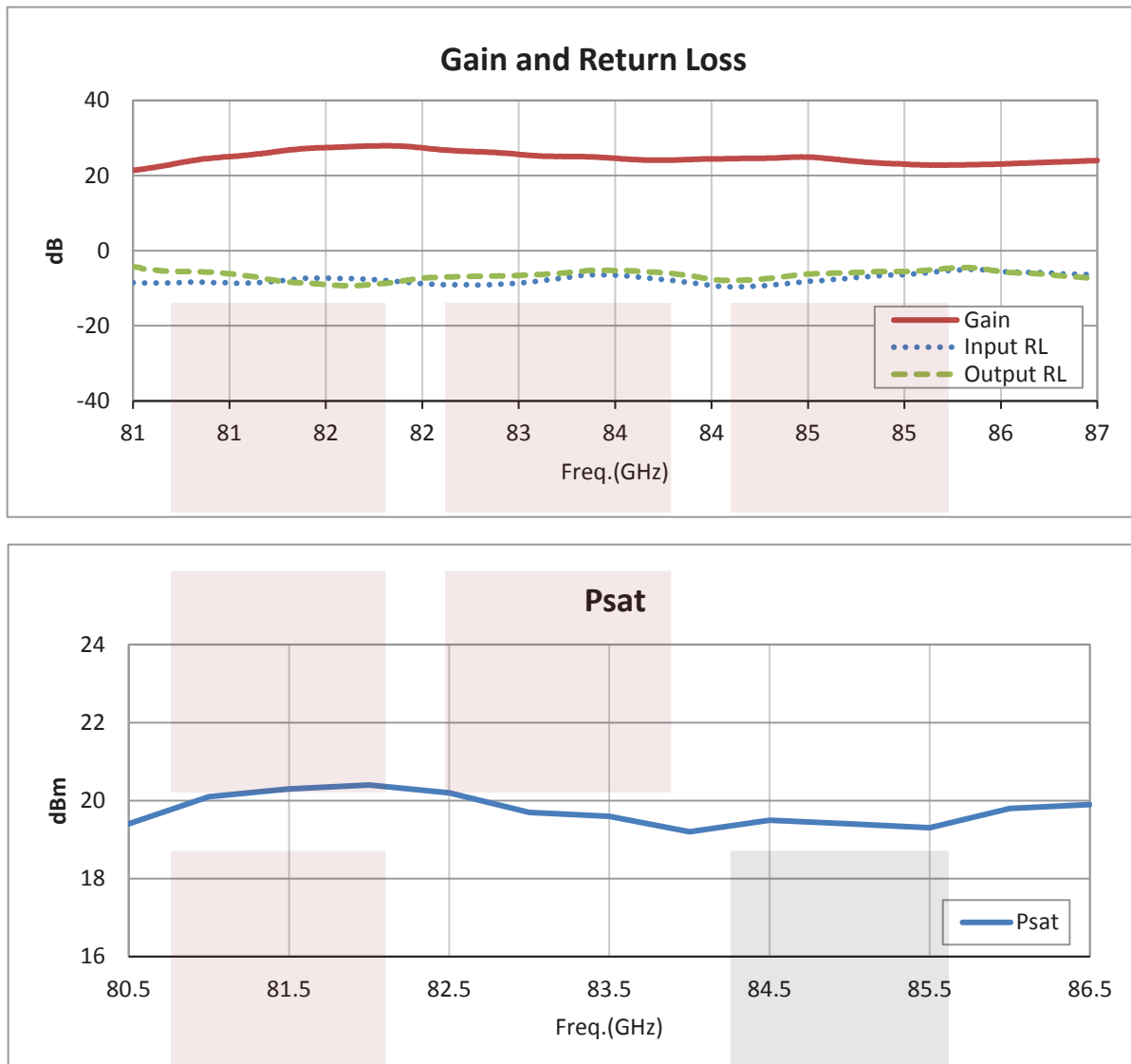
- E Band (70.5 to 76.5GHz) waveguide power amplifier
- Psat +19 dBm min
- Gain +20 dB min
- RF Ports: WR-12 with UG387/U-MOD Flange
- Gold Plated Compact Package Design

Applications:

- Transmitter Subsystems
- Military Communications
- Commercial Communications
- Instruments and Test Equipment

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Typical Performance Data

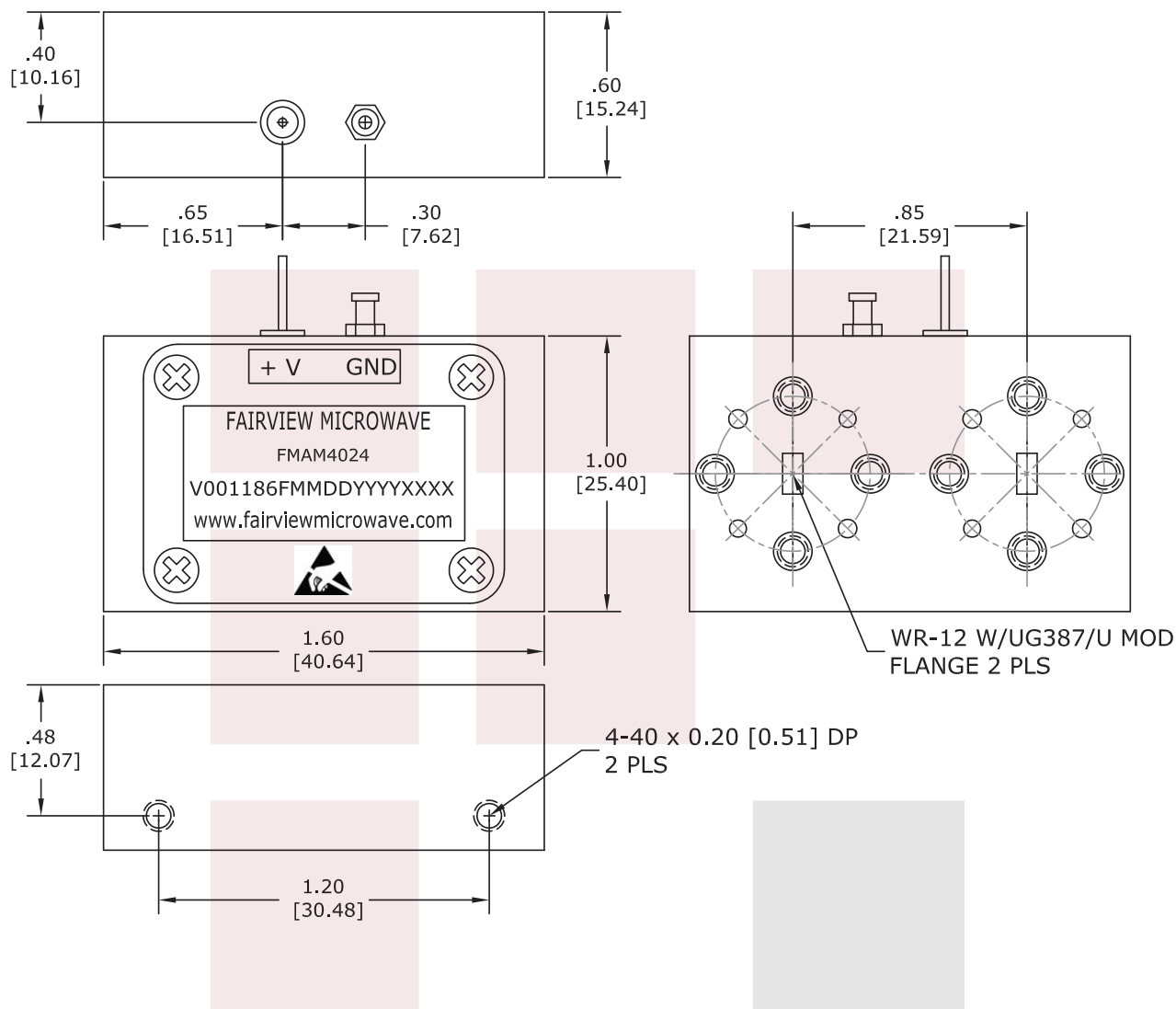


WR-12 Waveguide Power Amplifier 80.5 GHz to 86.5 GHz Frequency Range E Band With 20 dB Gain And 19 dBm Psat Using UG-387/U Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-12 Waveguide Power Amplifier 80.5 GHz to 86.5 GHz Frequency Range E Band With 20 dB Gain And 19 dBm Psat Using UG-387/U Flange FMAM4024](http://www.fairviewmicrowave.com/wr-12-waveguide-power-amplifier-86.5-ghz-e-band-19-dbm-psat-fmam4024-p.aspx)

URL: <http://www.fairviewmicrowave.com/wr-12-waveguide-power-amplifier-86.5-ghz-e-band-19-dbm-psat-fmam4024-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.



NOTE:
HEAT SINK REQUIRED FOR PROPER OPERATION,
UNIT IS COOLED BY CONDUCTING TO HEAT SINK.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN: inches
TOLERANCES ARE: [mm]
.XX ± .01 [±.25]
.XX ± .001 [±.025]

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 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].			
TITLE WR-12 Waveguide Power Amplifier 80.5 GHz to 86.5 GHz Frequency Range E Band With 20 dB Gain And 19 dBm Psat Using UG-387/U Flange		DWG NO FMAM4024		CAGE CODE 3FKR5	
CAD FILE	081015	SHEET	SCALE	N/A	SIZE A 2233