



WR-12, Waveguide Power Amplifier, E Band, 70.5 GHz to 76.5 GHz, 25 dB Gain, 22 dBm Psat, UG-387/U Flange

Waveguide Power Amplifiers - PE15A4023

Features

- E Band (70.5 to 76.5GHz) waveguide power amplifier
- Psat +22 dBm typ
- Gain +25 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

Description

The PE15A4023 is an Waveguide Power Amplifier with a frequency range of 70.5 to 76.5 GHz frequency range (E Band). The amplifier offers +22 dBm Typical of Psat and 25 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	Minimum	Typical	Maximum	Units
Frequency	70.5		76.5	GHz
Small Signal Gain	25			dB
Saturated Output Power	+20	+22		dBm
Input Return Loss		-10	-7	dB
Output Return Loss		-6	-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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-12, Waveguide Power Amplifier, E Band, 70.5 GHz to 76.5 GHz, 25 dB Gain, 22 dBm Psat, UG-387/U Flange PE15A4023](#)



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Configuration

Design

DC Bias Connector

Power

Standard

Description	Input Port	Output Port
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.Pasternack.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

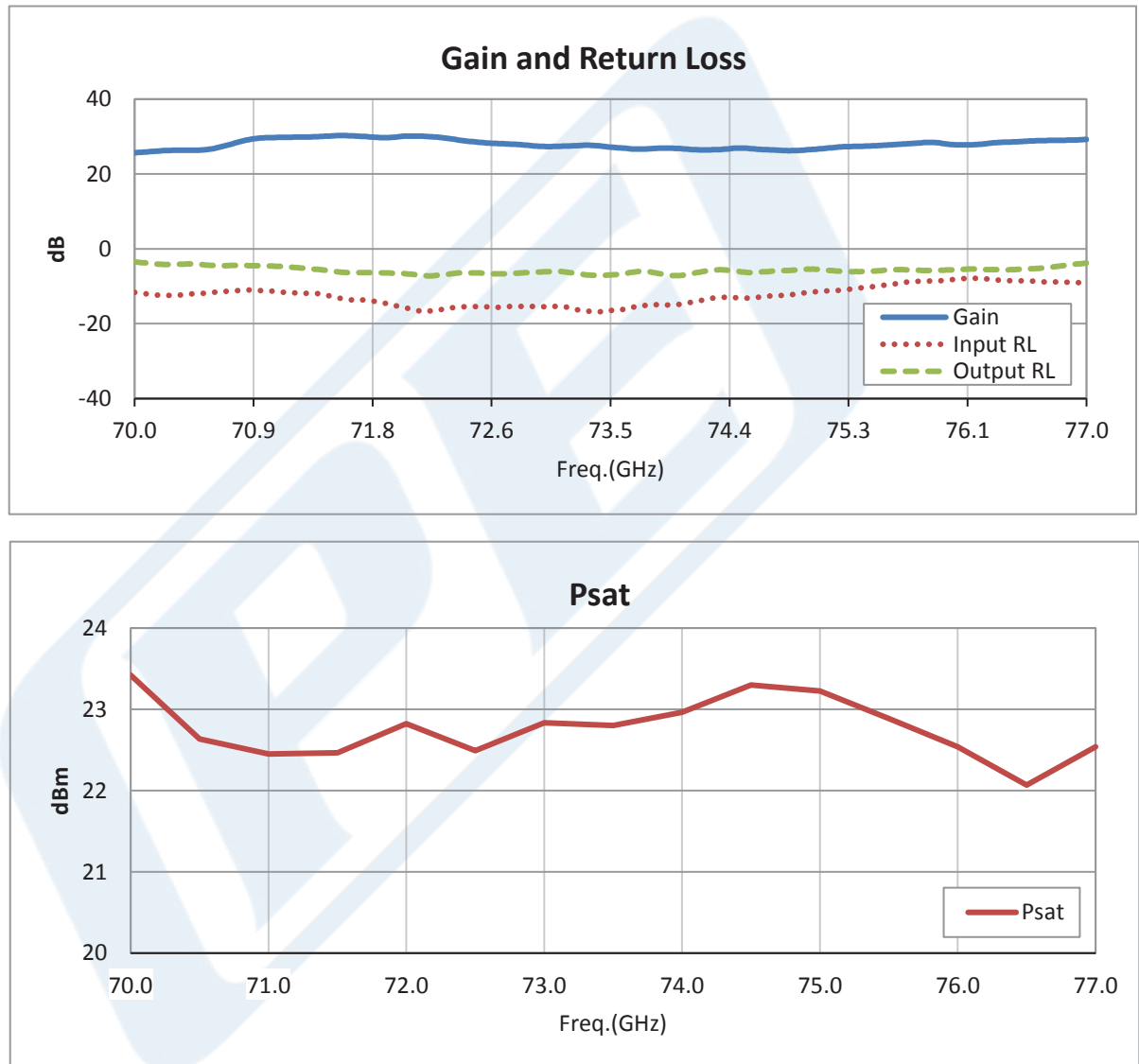
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-12, Waveguide Power Amplifier, E Band, 70.5 GHz to 76.5 GHz, 25 dB Gain, 22 dBm Psat, UG-387/U Flange PE15A4023](#)



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Typical Performance Data



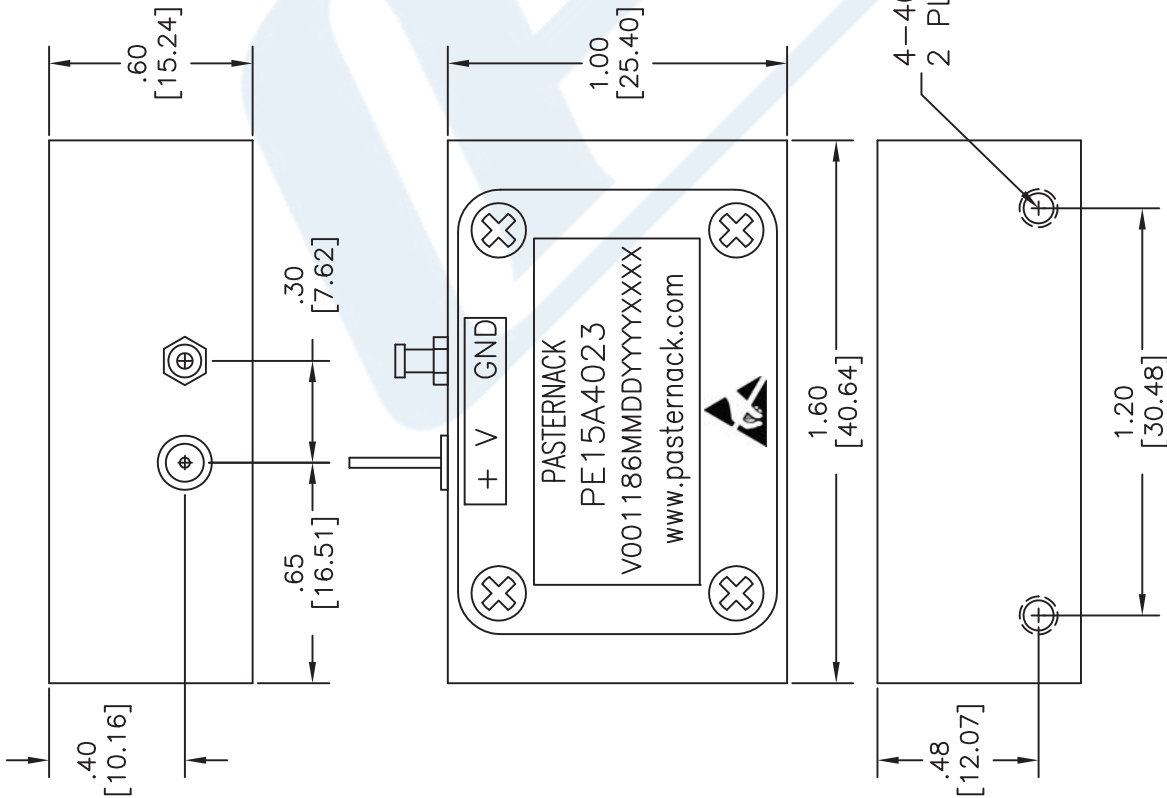
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE15A4023 CAD Drawing

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

UNLESS OTHERWISE SPECIFIED:

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

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

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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

DWG TITLE

PE15A4023

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

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FSCM NO. 53919

CAD FILE 071715

SCALE N/A

SIZE A

2233