



Waveguide Power Amplifiers - PE15A4024

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 Subsystmes
- Military Communications
- Commercial Communications
- · Instruments and Test Equipment

Description

The PE15A4024 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	Minimum	Typical	Maximum	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]

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, 80.5 GHz to 86.5 GHz, 20 dB Gain, 19 dBm Psat, UG-387/U Flange PE15A4024







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Configuration

Design Power DC Bias Connector Standard

Description	Input Port	Output Port
Туре	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:

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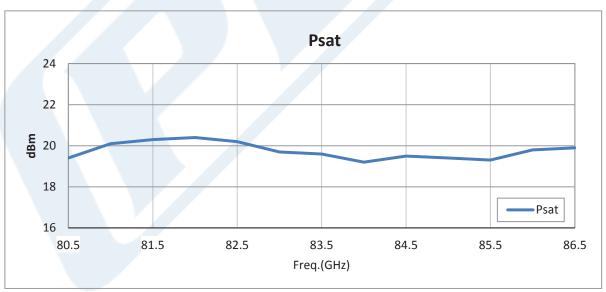




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Typical Performance Data





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ISO 9001 : 2008 Registered





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WR-12, Waveguide Power Amplifier, E Band, 80.5 GHz to 86.5 GHz, 20 dB Gain, 19 dBm Psat, UG-387/U Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wr-12-waveguide-power-amplifier-e-band-86.5-ghz-pe15a4024-p.aspx

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PE15A4024 CAD Drawing

WR-12, Waveguide Power Amplifier, E Band, 80.5 GHz to 86.5 GHz, 20 dB Gain, 19 dBm Psat, UG-387/U Flange

