

Waveguide Mixer Up Converter WR-12 From 60 GHz to 90 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-387/U Flange, E Band



# **Waveguide Converters - PE13U1001**

### **Features**

- E Band (60 to 90 GHz) full waveguide up converter
- Broad IF Frequency Range: DC to 18 GHz
- LO Drive level: +13 dBm nominal
- RF & LO Ports: WR-12 with UG-387/U-MOD Flange
- · Double Balanced design
- Low Capacitance GaAs Schottky Beam Lead diodes
- Gold Plated Compact Package Design
- Operating Temperature: 0°C to +50°C

## **Applications**

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

#### **Description**

The PE13U1001 is a full waveguide band up converter mixer with an LO and RF frequency range of 60 to 90 GHz (E Band). The IF frequency range is DC to 18 GHz with a nominal LO drive level of +13 dBm. The double balanced circuit design utilizes high performance GaAs Schottky beam lead diodes. Conversion loss is 8.5 dB typical and flat across the entire frequency band. The gold plated compact package design uses integrated WR-12 with UG-387/U-MOD waveguide flange interfaces for the RF and LO ports and a female SMA connector for the IF port.

### **Electrical Specifications**

Description	Minimum Toutest		Marrian	Hadin .
Description	Minimum	Typical	Maximum	Units
Frequency Range	60		90	GHz
LO Frequency Range	60		90	GHz
IF Frequency Range	DC		18	GHz
Conversion Loss		8.5		dB
LO Port Power		13	15	dBm

### **Mechanical Specifications**

Size

 Length
 1.4 in [35.56 mm]

 Width
 0.75 in [19.05 mm]

 Height
 0.75 in [19.05 mm]

 Weight
 0.0625 lbs [28.35 g]

#### Configuration

Design Mixer Up Converter

Description	RF Port	LO Port	IF Port
Туре	WR-12 UG-387/U	WR-12 UG-387/U	SMA Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Waveguide Mixer Up Converter WR-12 From 60 GHz to 90 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-387/U Flange, E Band PE13U1001

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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# **Environmental Specifications**

**Temperature** 

Operating Range

0 to +50 deg C



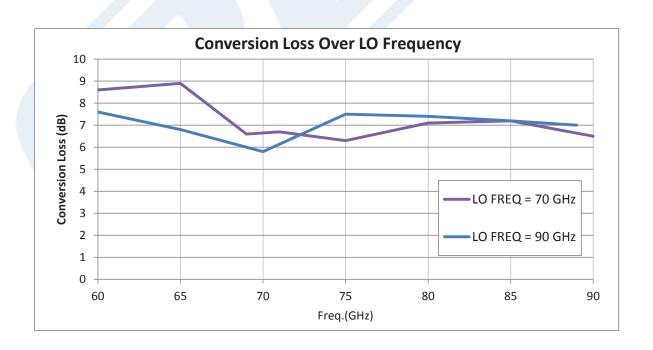
**Compliance Certifications** (visit www.Pasternack.com for current document) Not RoHS Compliant

Plotted and Other Data

Notes:

**Typical Performance Data** 

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URL: http://www.pasternack.com/waveguide-mixer-up-converter-wr-12-60-90-ghz-if-18-ghz-pe13u1001-p.aspx

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# PE13U1001 CAD Drawing

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