



Waveguide Mixer Up Converter WR-28 From
26.5 GHz to 40 GHz, IF From DC to 18 GHz And LO Power
of +13 dBm, UG-599/U Flange, Ka Band

Waveguide Converters - PE13U1005

Features

- Ka Band (26.5 to 40 GHz) full waveguide up converter
- Broad IF Frequency Range: DC to 18 GHz
- LO Drive level: +13 dBm nominal
- RF & LO Ports: WR-28 with UG-599/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 PE13U1005 is a full waveguide band up converter mixer with an LO and RF frequency range of 26.5 to 40 GHz (Ka 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 6 dB typical and flat across the entire frequency band. The gold plated compact package design uses integrated WR-28 with UG-599/U-MOD waveguide flange interfaces for the RF and LO ports and a female SMA connector for the IF port.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
LO Frequency Range	26.5		40	GHz
IF Frequency Range	DC		18	GHz
Conversion Loss		6		dB
LO Connector Power		13	15	dBm

Mechanical Specifications

Temperature

Operating Range 0 to +50 deg C

Size

Length 1.24 in [31.5 mm]
Width 0.75 in [19.05 mm]
Height 0.75 in [19.05 mm]
Weight 0.0625 lbs [28.35 g]

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-28 From 26.5 GHz to 40 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-599/U Flange, Ka Band PE13U1005](#)

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Connectors

Description	RF Connector	LO Connector	IF Connector
Type	WR-28 UG-599/U	WR-28 UG-599/U	SMA Female

Configuration

Design	Mixer Up Converter
RF Connector	WR-28 UG-599/U
LO Connector	WR-28 UG-599/U
IF Connector	SMA Female

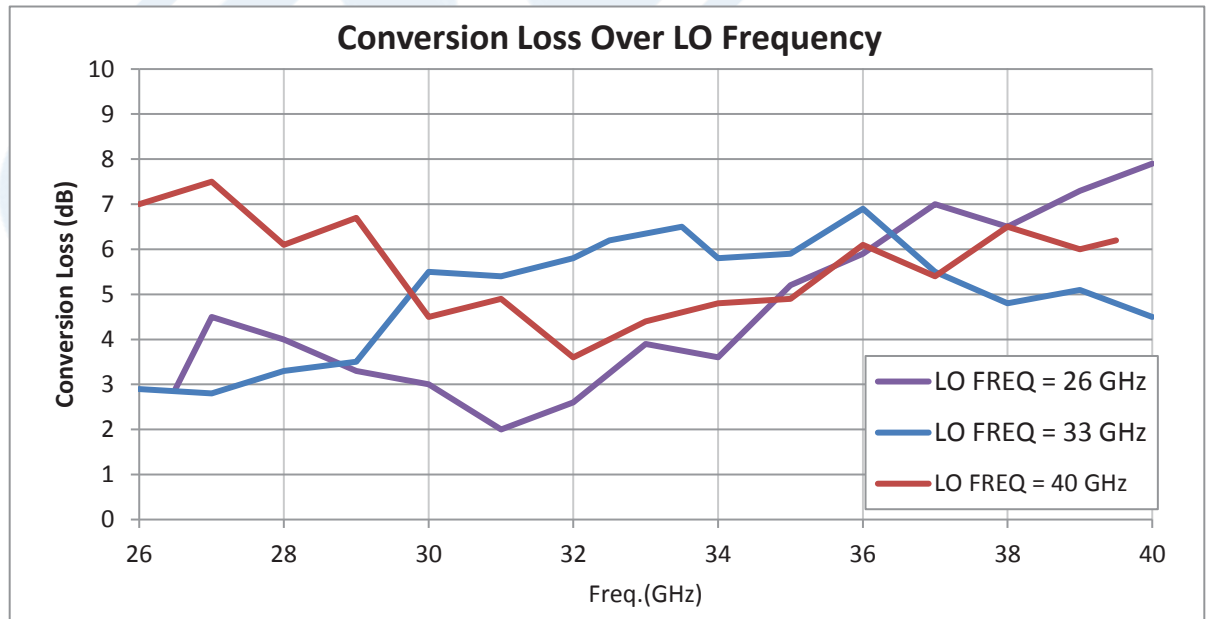
Compliance Certifications (visit www.Pasternack.com for current document)
Not RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Typical Performance Data



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Waveguide Mixer Up Converter WR-28 From 26.5 GHz to 40 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-599/U Flange, Ka Band 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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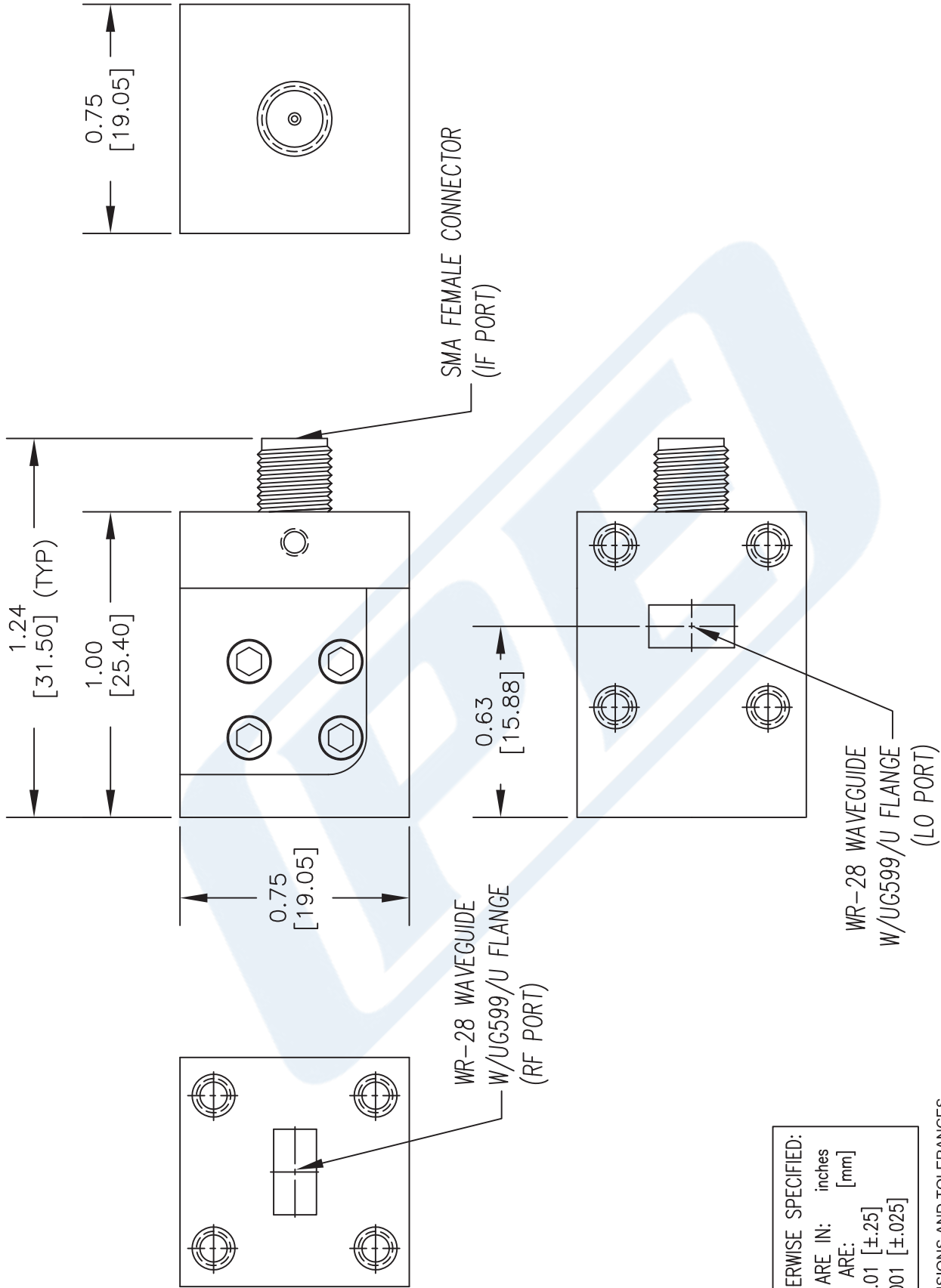
URL: <http://www.pasternack.com/waveguide-mixer-up-converter-wr-28-26.5-40-ghz-if-18-ghz-pe13u1005-p.aspx>

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PE13U1005 CAD Drawing

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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].

DWG TITLE
PE13U1005
 FSCM NO. 53919
 CAD FILE 072015
 SCALE N/A
 SIZE A
 2233

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