

Waveguide Mixer Up Converter WR-22 From 33 GHz to 50 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-383/U Flange, Q Band



Waveguide Converters - PE13U1004

Features

- Q Band (33 to 50 GHz) full waveguide up converter
- Broad IF Frequency Range: DC to 18 GHz
- LO Drive level: +13 dBm nominal
- RF & LO Ports: WR-22 with UG-383/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 PE13U1004 is a full waveguide band up converter mixer with an LO and RF frequency range of 33 to 50 GHz (Q 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 6.5 dB typical and flat across the entire frequency band. The gold plated compact package design uses integrated WR-22 with UG-383/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	33		50	GHz
LO Frequency Range	33		50	GHz
IF Frequency Range	DC		18	GHz
Conversion Loss		6.5		dB
LO Connector Power		13	15	dBm

Mechanical Specifications

Temperature

Operating Range 0 to +50 deg C

Size

 Length
 1.5 in [38.1 mm]

 Width
 1.13 in [28.7 mm]

 Height
 1.13 in [28.7 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-22 From 33 GHz to 50 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-383/U Flange, Q Band PE13U1004

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Connectors

Description	RF Connector	LO Connector	IF Connector		
Туре	WR-22 UG-383/U	WR-22 UG-383/U	SMA Female		
Configuration					
Design		Mixer Up Converter			
RF Connector	WR-22 UG-383/U				
LO Connector	WR-22 UG-383/U				
IF Connector		SMA Female			

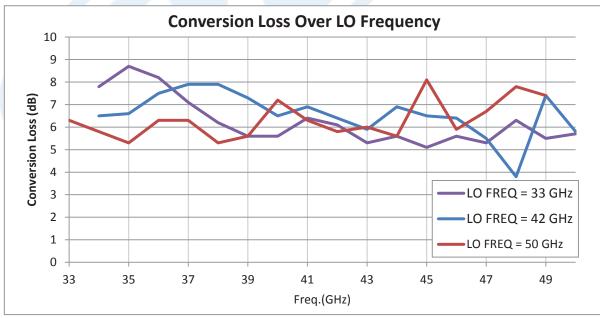
Compliance Certifications (visit www.Pasternack.com for current document) Not RoHS Compliant

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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URL: http://www.pasternack.com/wavequide-mixer-up-converter-wr-22-33-50-ghz-if-18-ghz-pe13u1004-p.aspx

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PE13U1004 CAD Drawing

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