

Waveguide Mixer Down Converter WR-19 From 40 GHz to 60 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-383/U Flange, U Band



Waveguide Converters - PE12D1003

Features

- V Band (40 to 60 GHz) full waveguide Down converter
- Broad IF Frequency Range: DC to 18 GHz
- LO Drive level: +13 dBm nominal
- RF & LO Ports: WR-19 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

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

Description

The PE12D1003 is a full waveguide band down converter mixer with an LO and RF frequency range of 40 to 60 GHz (U 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 7 dB typical and flat across the entire frequency band. The gold plated compact package design uses integrated WR-19 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	40		60	GHz
LO Frequency Range	40		60	GHz
IF Frequency Range	DC		18	GHz
Conversion Loss		7		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 Down Converter WR-19 From 40 GHz to 60 GHz, IF From DC to 18 GHz And LO Power of +13 dBm, UG-383/U Flange, U Band PE12D1003

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



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Connectors

Description	RF Connector	LO Connector	IF Connector
Туре	WR-19 UG-383/U	WR-19 UG-383/U	SMA Female

Configuration
Design

RF Connector LO Connector IF Connector

WR-19 UG-383/U SMA Female

WR-19 UG-383/U

Mixer Down Converter

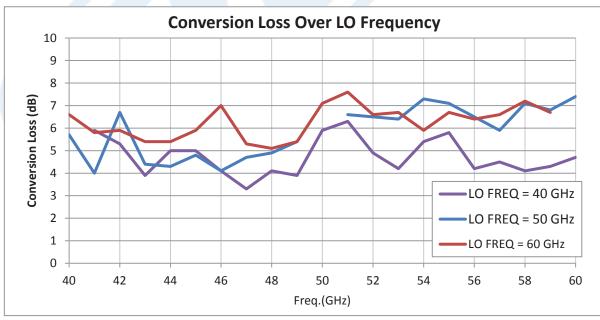
Compliance Certifications (visit www.Pasternack.com for current document)
Not RoHS Compliant

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/waveguide-mixer-down-converter-wr-19-40-60-ghz-if-18-ghz-pe12d1003-p.aspx

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PE12D1003 CAD Drawing

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