



WR-187 UDR48 Flange to SMA Female Waveguide to Coax Adapter Operating from 3.94 GHz to 5.99 GHz

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1076

Features

- C band
- 3.94 to 5.99 GHz Frequency Range
- WR-187 Waveguide Interface
- UDR48 Flange
- SMA Female RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Description

The PEWCA1076 is a waveguide to coaxial adapter operating in the C Band with a 3.94 to 5.99 GHz frequency range. This adapter offers a WR-187 waveguide interface size coupled with a precision tolerance UDR48 flange. The PEWCA1076 is constructed of aluminum and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female connector.

Configuration

Waveguide Size
Flange
RF Connector
Impedance
Body Geometry

WR-187
UDR48
SMA Female
50 Ohms
Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.94		5.99	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			50	Watts

Mechanical Specifications

Size

Length 2.64 in [67.06 mm]
Width 3.54 in [89.92 mm]
Height 2.5 in [63.5 mm]
Weight 0.375 lbs [170.1 g]

RF Connector

Connector Type SMA Female
Body Material and Plating Aluminum

Waveguide Interface

Waveguide Type WR-187

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 UDR48 Flange to SMA Female Waveguide to Coax Adapter Operating from 3.94 GHz to 5.99 GHz PEWCA1076](#)



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Flange Type
Body Material and Plating

UDR48
Aluminum

Environmental Specifications

Temperature

Operating Range

-40 to +70 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise

WR-187 UDR48 Flange to SMA Female Waveguide to Coax Adapter Operating from 3.94 GHz to 5.99 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 UDR48 Flange to SMA Female Waveguide to Coax Adapter Operating from 3.94 GHz to 5.99 GHz PEWCA1076](#)

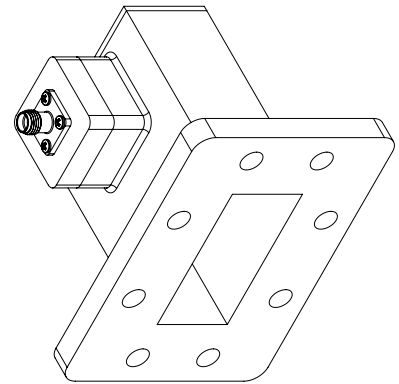
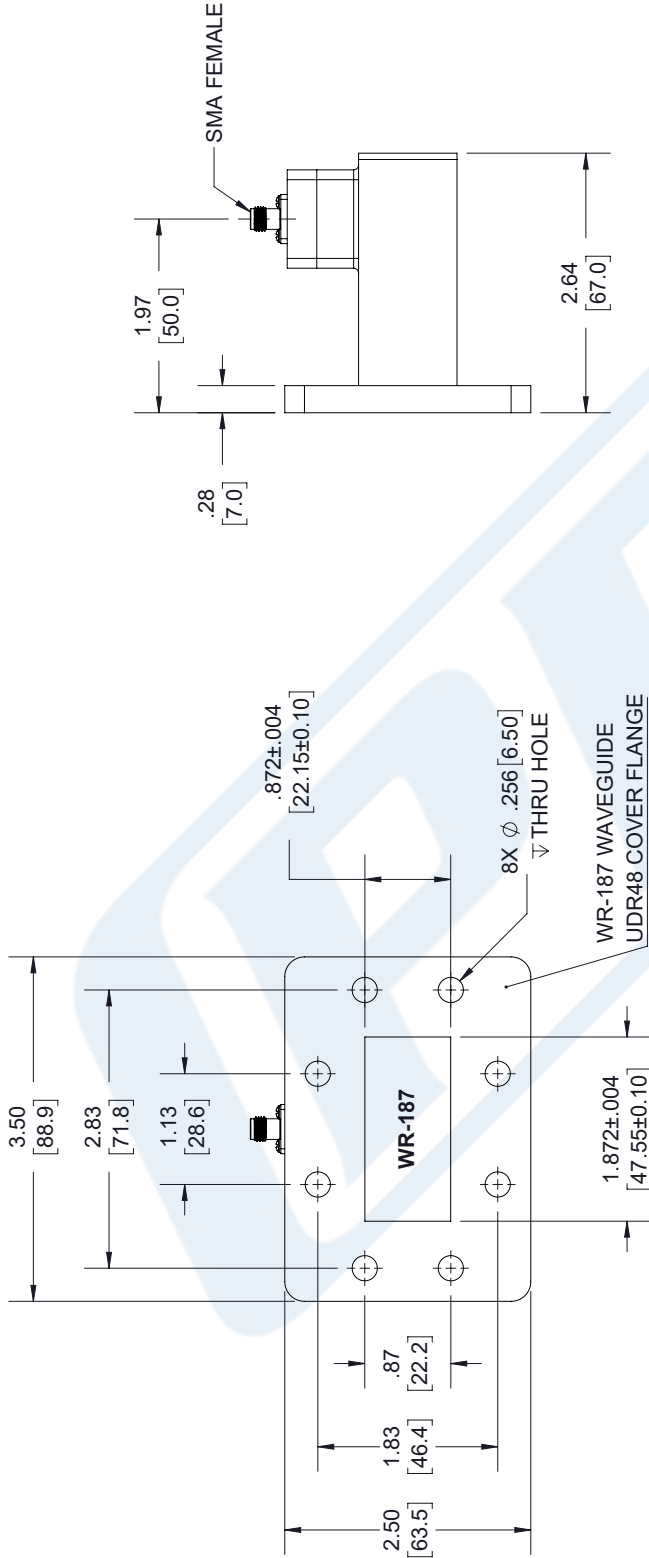
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PEWCA1076 CAD Drawing

WR-187 UDR48 Flange to SMA Female Waveguide to Coax
Adapter Operating from 3.94 GHz to 5.99 GHz

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/1/2020	S. PONG



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ± .2 [5.08] FRACTIONS
 .XX = ± .02 [.51] ± 1/32
 .XXX = ± .005 [.13] ANGLES ± 1°
 CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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an INFINITI® brand

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SHEET 1 OF 1
SCALE N/A

SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PEWCA1076 REV A

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