



WR-137 CMR-137 Flange to SMA Female Waveguide to Coax Adapter Operating from 5.85 GHz to 8.2 GHz

Waveguide to Coax Adapters Technical Data Sheet

PE9830

Features

- C Band, 5.85 to 8.2 GHz Frequency Range
- WR-137 Waveguide Interface with CMR-137 Flange
- SMA Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Description

The PE9830 is a waveguide to coaxial adapter operating in the C band with a 5.85 to 8.2 GHz frequency range. This adapter offers a WR-137 waveguide interface size coupled with a precision tolerance CMR-137 flange. The PE9830 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA female connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

Configuration

| | |
|----------------|-------------|
| Waveguide Size | WR-137 |
| Flange | CMR-137 |
| RF Connector | SMA Female |
| Impedance | 50 Ohms |
| Body Geometry | Right Angle |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 5.85 | | 8.2 | GHz |
| VSWR | | | 1.3:1 | |
| Insertion Loss | | 0.4 | 0.5 | dB |

Mechanical Specifications

| | |
|-------------|--------------------|
| Size | |
| Length | 2.28 in [57.91 mm] |
| Width | 1.55 in [39.37 mm] |
| Height | 1.35 in [34.29 mm] |
| Weight | 0.1874 lbs [85 g] |

RF Connector

| | |
|---------------------------|-----------------|
| Connector Type | SMA Female |
| Body Material and Plating | Stainless Steel |

Waveguide Interface

| | |
|---------------------------|----------|
| Waveguide Type | WR-137 |
| Flange Type | CMR-137 |
| Body Material and Plating | Aluminum |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 CMR-137 Flange to SMA Female Waveguide to Coax Adapter Operating from 5.85 GHz to 8.2 GHz PE9830](#)



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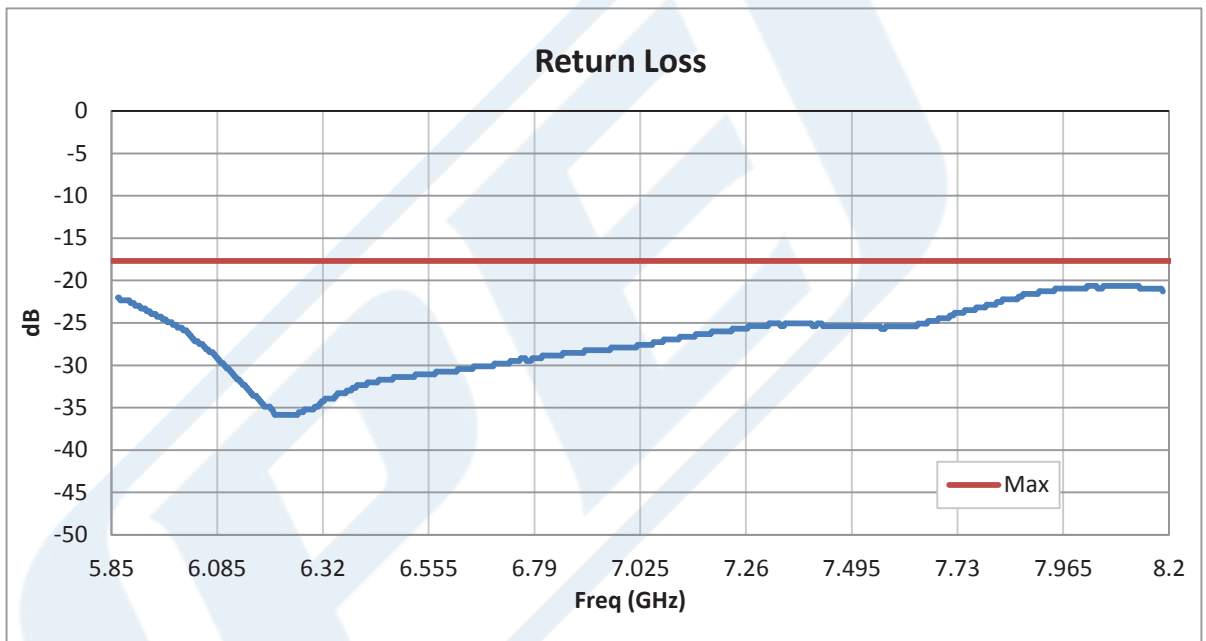
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



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WR-137 CMR-137 Flange to SMA Female Waveguide to Coax Adapter Operating from 5.85 GHz to 8.2 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.

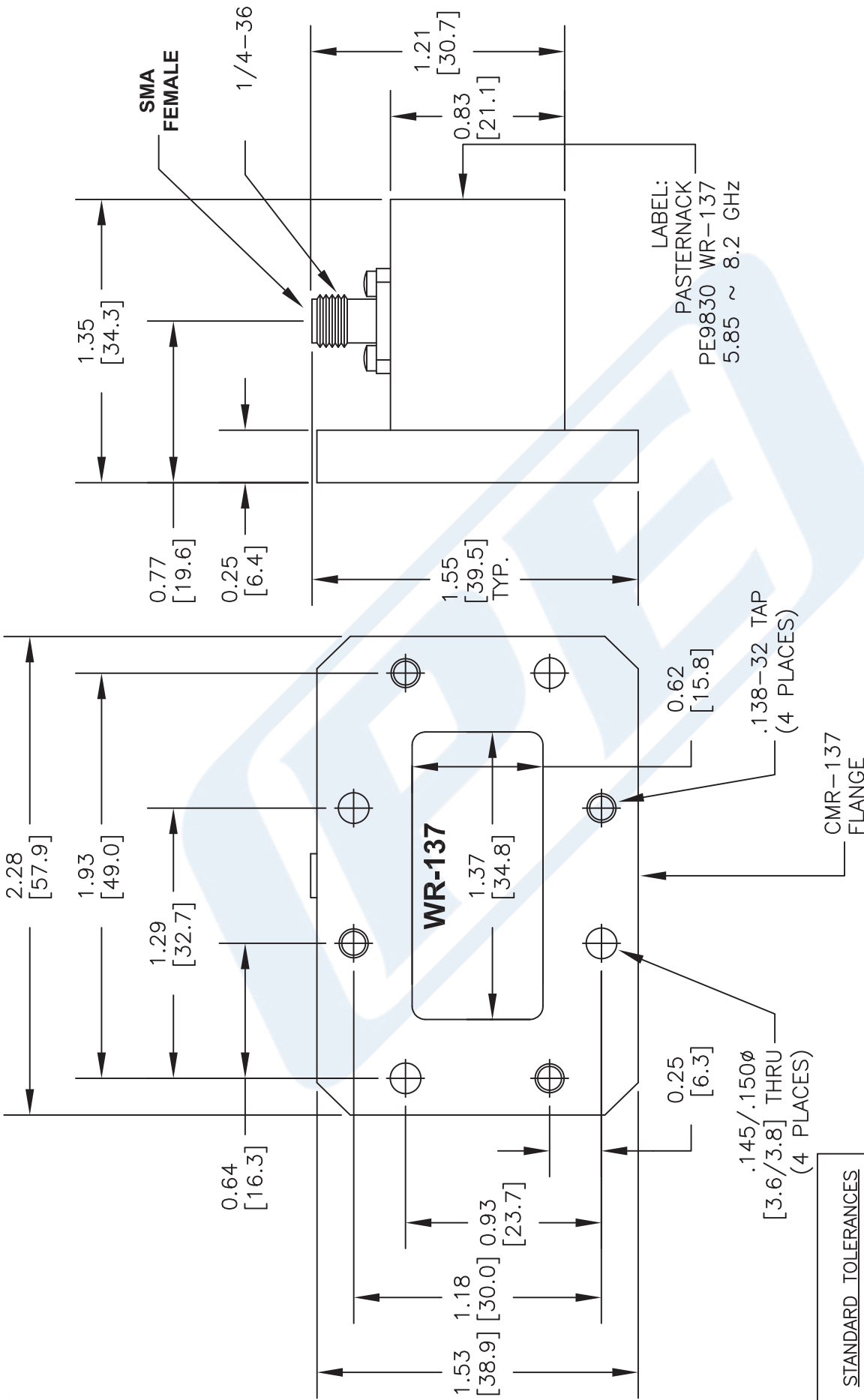
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE9830 CAD Drawing

WR-137 CMR-137 Flange to SMA Female Waveguide to Coax Adapter Operating from 5.85 GHz to 8.2 GHz



BACK VIEW

DWG TITLE

PE9830

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].

FSCM NO. 53919

CAD FILE 042816

SCALE N/A

SIZE A

3045

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