



## WR-62 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 11.9 to 18 GHz

### TECHNICAL DATA SHEET

**PEWCK1002**

PEWCK1002 is a precision WR-62 calibration kit assembled to support standard TRL (Thru-Reflect-Line) and SSLT (Short-Short-Load-Thru) calibrations on industry standard vector network analyzers (VNA). The WR-62 calibration kit comes with two fixed flush waveguide shorts, 1/8 wavelength, 1/4 wavelength and 3/8 wavelength waveguide offsets, one matched waveguide fixed termination and two precision WR-62 waveguide-to-coax adapters. Additional WR-62 precision waveguide straight sections are available for purchase separately. Precision waveguide components in PEWCK1002 are designed to work in full WR-75 band from 11.9 to 18 GHz. PEWCK1002 is one of the many calibration kits and T&M components which are readily available in stock and for same-day shipment at Pasternack.

#### Features

- WR-62 waveguide size
- Frequency range from 11.9 to 18 GHz
- Precision fabricated and manufactured
- Compatible with standard TRL & SSLT calibration techniques
- Additional waveguide test standards available upon request

#### Configuration

Waveguide Size  
Connector  
Frequency Range

WR-62  
SMA  
11.9 to 18 GHz

**WR-62 Calibration Kit Components**

| Components   | Frequency (GHz) | Quantity |
|--|-----------------|----------|
| WR-62 Waveguide to Coax Adapter with SMA Female Connector          | 11.9 to 18 GHz  | 1        |
| WR-62 Waveguide to Coax Adapter with SMA Male Connector            | 11.9 to 18 GHz  | 1        |
| WR-62 Waveguide Termination  | 11.9 to 18 GHz  | 1        |
| WR-62 Waveguide Short  | 11.9 to 18 GHz  | 2        |
| WR-62 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section) | 11.9 to 18 GHz  | 3        |

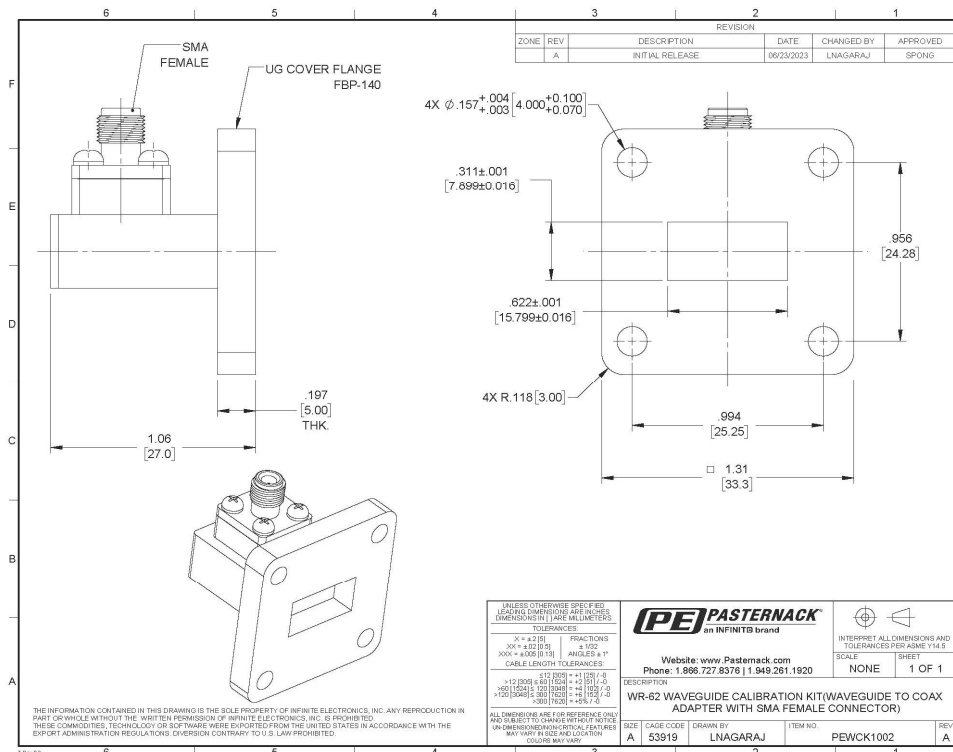
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-62 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 11.9 to 18 GHz PEWCK1002](#)



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### WR-62 Waveguide to Coax Adapter with SMA Female Connector



### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 11.9    |         | 18      | GHz   |
| VSWR            |         |         | 1.2:1   |       |
| Insertion Loss  |         |         | 0.2     | dB    |

### Mechanical Specifications

| Item                         | Description  | Units  |
|------------------------------|--|--------|
| Waveguide Size               | WR-62  |        |
| Flange Type                  | UG Square Cover                                    |        |
| RF Connector Type and Gender | SMA Female   |        |
| Body                         | Right Angle  |        |
| Body Material and Plating    | Copper, Silver plated                              |        |
| Housing                      | Black Paint  |        |
| Dimensions                   | 1.06 [27 mm] L, 1.47 [37.5 mm] H, 1.31 [33.3 mm] W | inches |

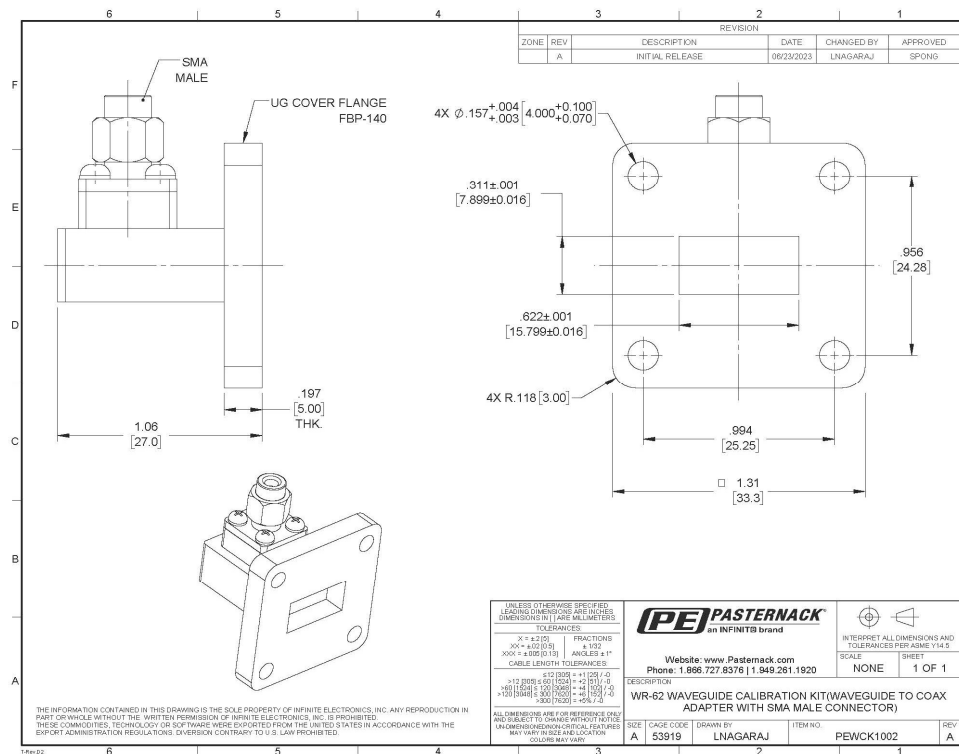
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## TECHNICAL DATA SHEET

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## WR-62 Waveguide to Coax Adapter with SMA Male Connector



## Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 11.9    |         | 18      | GHz   |
| VSWR            |         |         | 1.2:1   |       |
| Insertion Loss  |         |         | 0.2     | dB    |

## Mechanical Specifications

| Item                         | Description  | Units  |
|------------------------------|--|--------|
| Waveguide Size               | WR-62  |        |
| Flange Type                  | UG Square Cover                                    |        |
| RF Connector Type and Gender | SMA Male   |        |
| Body                         | Right Angle  |        |
| Body Material and Plating    | Copper, Silver plated                              |        |
| Housing                      | Black Paint  |        |
| Dimensions                   | 1.06 [27 mm] L, 1.47 [37.5 mm] H, 1.56 [39.7 mm] W | inches |

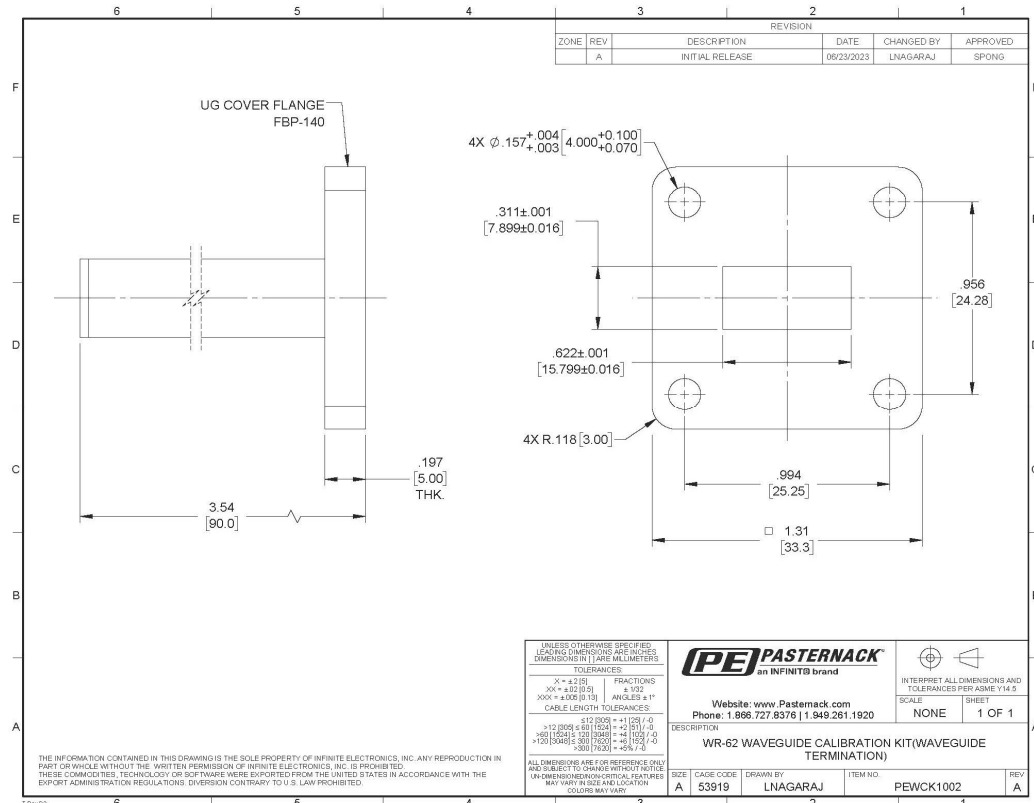
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## TECHNICAL DATA SHEET

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### WR-62 Waveguide Termination



### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 11.9    |         | 18      | GHz   |
| VSWR            |         |         | 1.03:1  |       |

### Mechanical Specifications

| Item                      | Description  | Units  |
|---------------------------|--|--------|
| Waveguide Size            | WR-62  |        |
| Flange Type               | UG Square Cover                                    |        |
| Body Material and Plating | Copper, Silver plated                              |        |
| Housing                   | Black Paint  |        |
| Dimensions                | 3.54 [90 mm] L, 1.31 [33.3 mm] H, 1.31 [33.3 mm] W | inches |

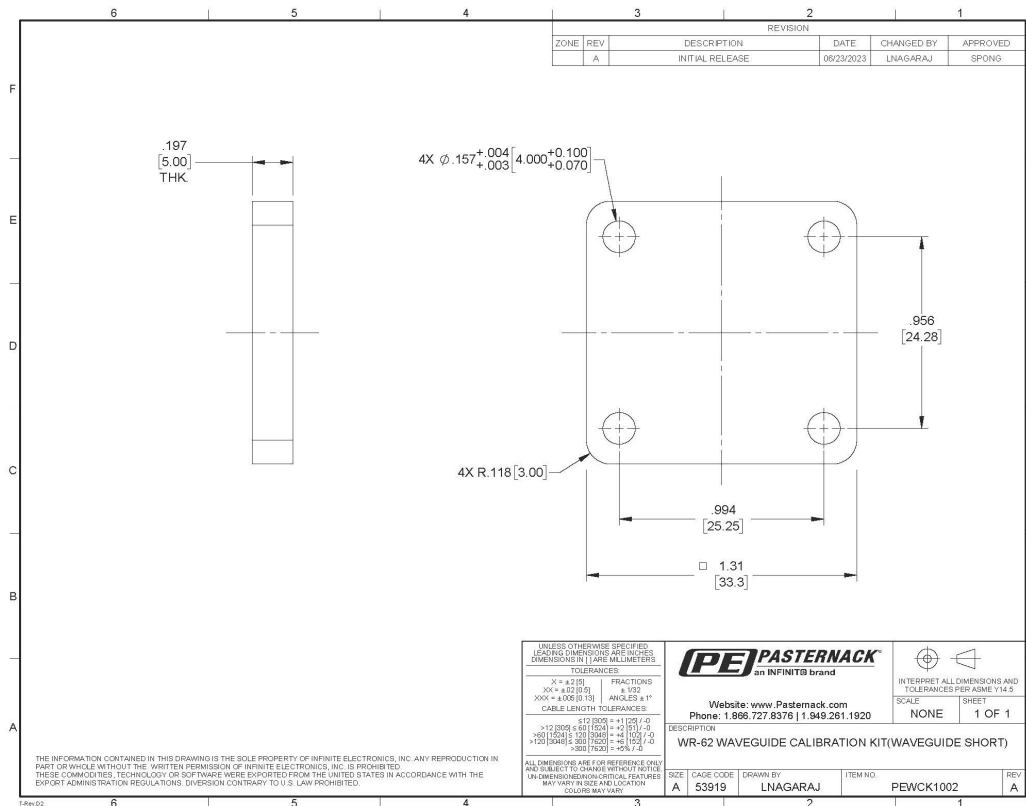
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## WR-62 Waveguide Short



## Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 11.9    |         | 18      | GHz   |
| VSWR            | 60:1    |         |         |       |

## Mechanical Specifications

| Item                      | Description  | Units  |
|---------------------------|--|--------|
| Waveguide Size            | WR-62  |        |
| Flange Type               | UG Square Cover                                    |        |
| Body Material and Plating | Copper, Silver plated                              |        |
| Housing                   | Black Paint  |        |
| Dimensions                | 0.197 [5 mm] L, 1.31 [33.3 mm] H, 1.31 [33.3 mm] W | inches |

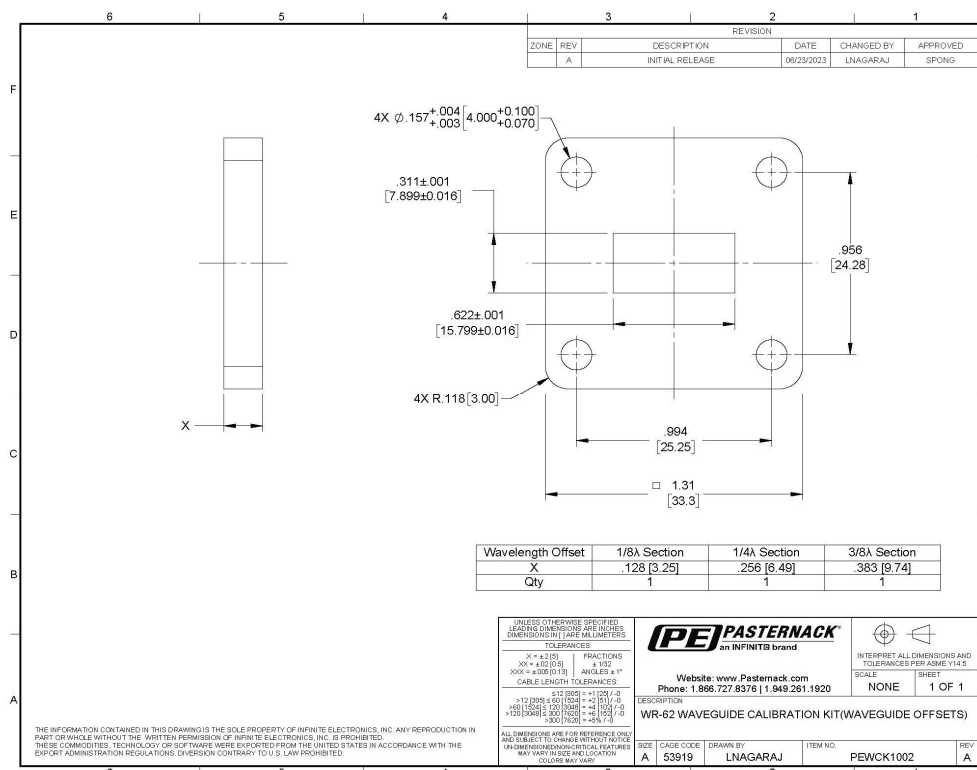
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### WR-62 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section)



### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 11.9    |         | 18      | GHz   |

### Mechanical Specifications

| Item                      | Description                              |                 |                 | Units  |
|---------------------------|--|-----------------|-----------------|--------|
| Waveguide Size            | WR-62                                    |                 |                 |        |
| Flange Type               | UG Square Cover                          |                 |                 |        |
| Wavelength Offset         | 1/8λ Section, 1/4λ Section, 3/8λ Section |                 |                 |        |
| Body Material and Plating | Copper, Silver plated                    |                 |                 |        |
| Housing                   | Black Paint                              |                 |                 |        |
| Length                    | 1/8λ Section                             | 1/4λ Section    | 3/8λ Section    |        |
|                           | 0.128 [3.25 mm]                          | 0.256 [6.49 mm] | 0.383 [9.74 mm] | inches |
| Dimensions (H, W)         | 1.31 [33.3 mm] H, 1.31 [33.3 mm] W       |                 |                 | inches |

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

**Plotted and Other Data**

Notes:

- Values at 25 °C, sea level

WR-62 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 11.9 to 18 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-62 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 11.9 to 18 GHz PEWCK1002](#)

URL: <https://www.pasternack.com/wr-62-adapter-short-load-offset-18-ghz-pewck1002-p.aspx-p.aspx>

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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.