



WR-28 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 26.5 to 40 GHz

TECHNICAL DATA SHEET

PEWCK1005

PEWCK1005 is a precision WR-28 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-28 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-28 waveguide-to-coax adapters. Additional WR-28 precision waveguide straight sections are available for purchase separately. Precision waveguide components in PEWCK1005 are designed to work in full WR-28 band from 26.5 to 40GHz. PEWCK1005 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-28 waveguide size
- Frequency range from 26.5 to 40 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-28
2.92mm
26.5 to 40 GHz

WR-28 Calibration Kit Components

Components	Frequency (GHz)	Quantity
WR-28 Waveguide to Coax Adapter with 2.92mm Female Connector	26.5 to 40 GHz	1
WR-28 Waveguide to Coax Adapter with 2.92mm Male Connector	26.5 to 40 GHz	1
WR-28 Waveguide Termination	26.5 to 40 GHz	1
WR-28 Waveguide Short	26.5 to 40 GHz	2
WR-28 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section)	26.5 to 40 GHz	3

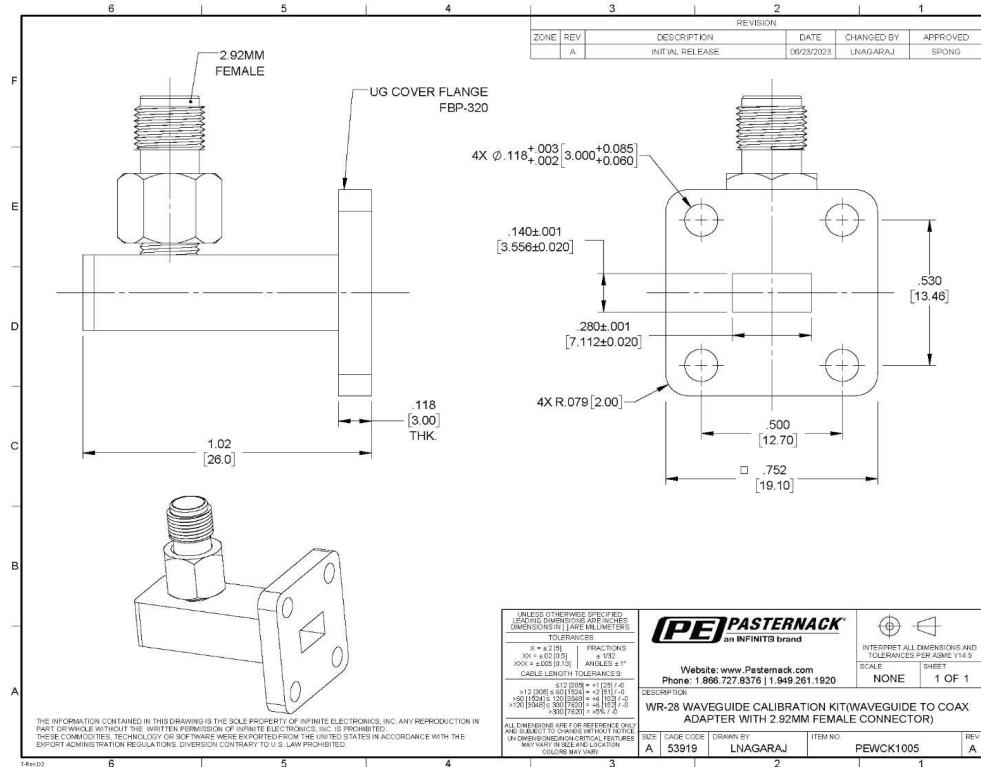
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 26.5 to 40 GHz PEWCK1005](#)



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WR-28 Waveguide to Coax Adapter with 2.92mm Female Connector



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DESCRIPTION: WR-28 WAVEGUIDE CALIBRATION KIT(WAVEGUIDE TO COAX ADAPTER WITH 2.92MM FEMALE CONNECTOR)

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

SIZE: 53919 DRAWN BY: LNAGARAJ ITEM NO: PEWCK1005 REV: A

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
VSWR			1.2:1	
Insertion Loss			0.3	dB

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-28	
Flange Type	UG Square Cover	
RF Connector Type and Gender	2.92mm Female	
Body	Right Angle	
Body Material and Plating	Copper, Gold plated	
Dimensions	1.02 [26 mm] L, 1.09 [27.8 mm] H, 0.752 [19.1 mm] W	inches

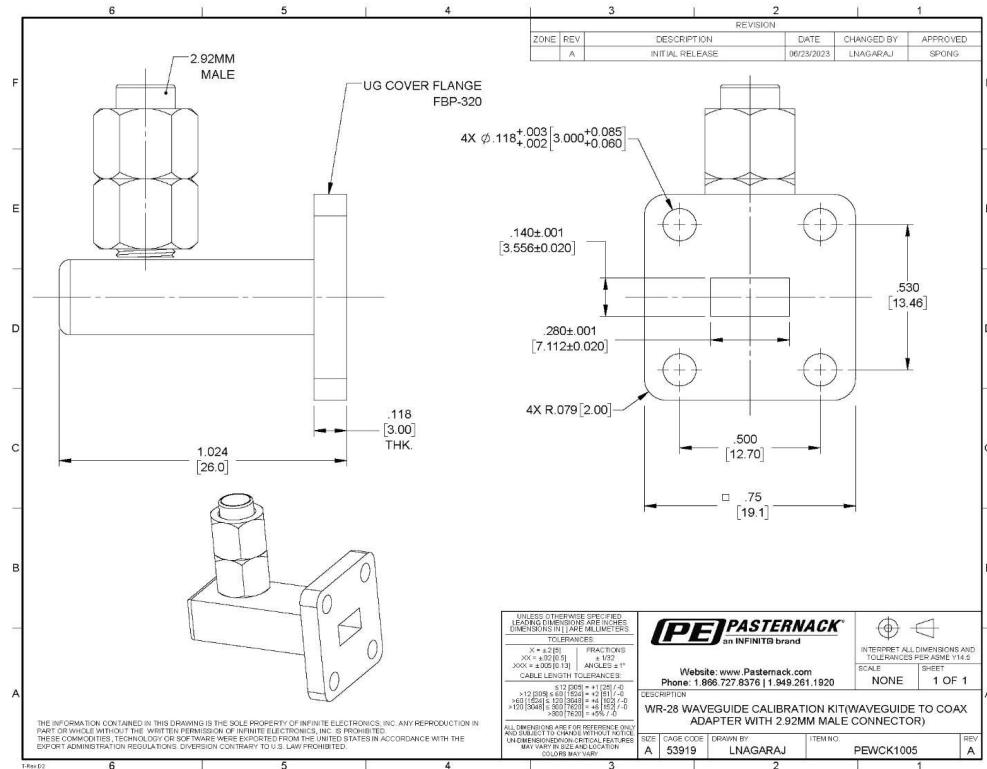
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TECHNICAL DATA SHEET

PEWCK1005

WR-28 Waveguide to Coax Adapter with 2.92mm Male Connector



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
VSWR			1.2:1	
Insertion Loss			0.3	dB

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-28	
Flange Type	UG Square Cover	
RF Connector Type and Gender	2.92mm Male	
Body	Right Angle	
Body Material and Plating	Copper, Gold plated	
Dimensions	1.02 [26 mm] L, 1.09 [29.4 mm] H, 0.752 [19.1 mm] W	inches

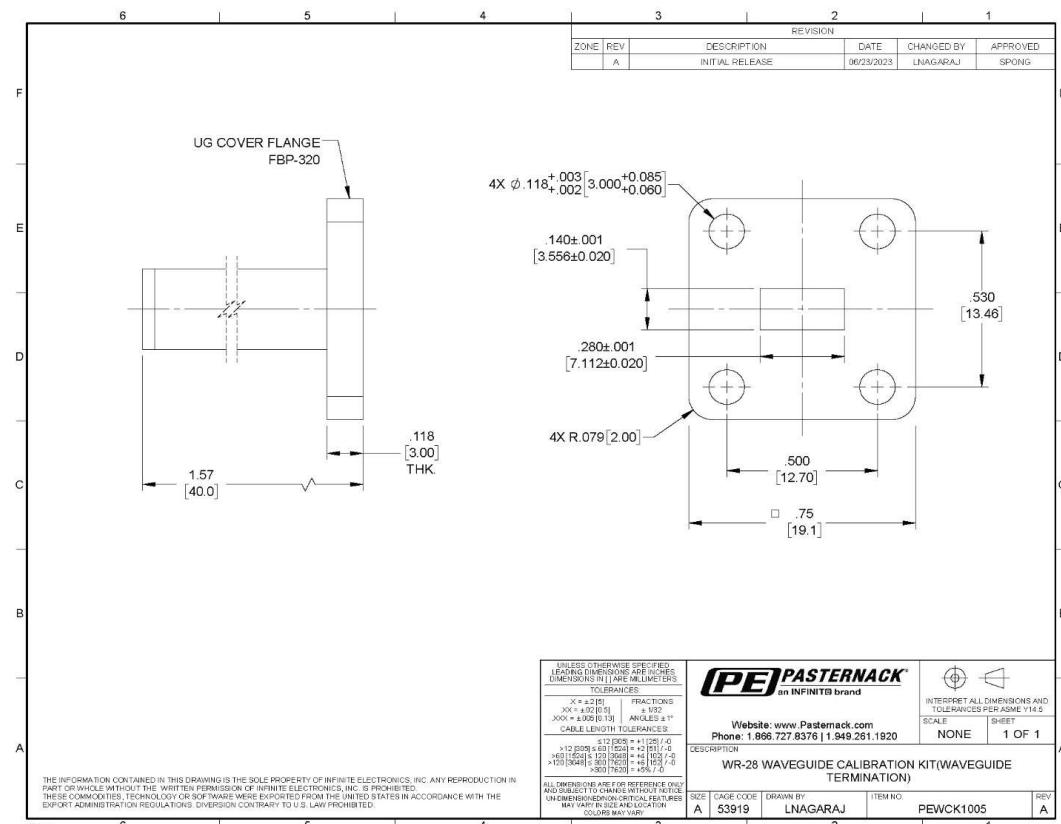
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TECHNICAL DATA SHEET

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WR-28 Waveguide Termination



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
VSWR			1.03:1	

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-28	
Flange Type	UG Square Cover	
Body Material and Plating	Copper, Gold plated	
Dimensions	1.57 [40 mm] L, 0.75 [19.1 mm] H, 0.75 [19.1 mm] W	inches

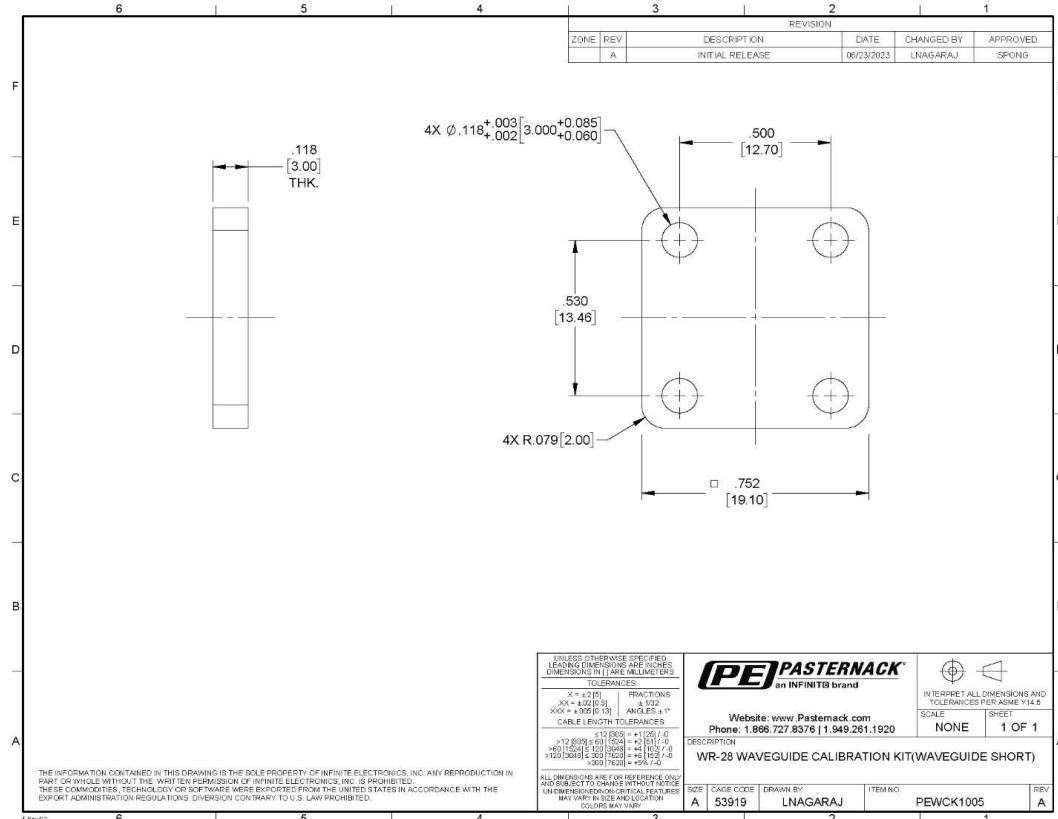
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TECHNICAL DATA SHEET

PEWCK1005

WR-28 Waveguide Short



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
VSWR	60:1			

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-28	
Flange Type	UG Square Cover	
Body Material and Plating	Copper, Gold plated	
Dimensions	0.118 [3 mm] L, 0.752 [19.1 mm] H, 0.752 [19.1 mm] W	inches

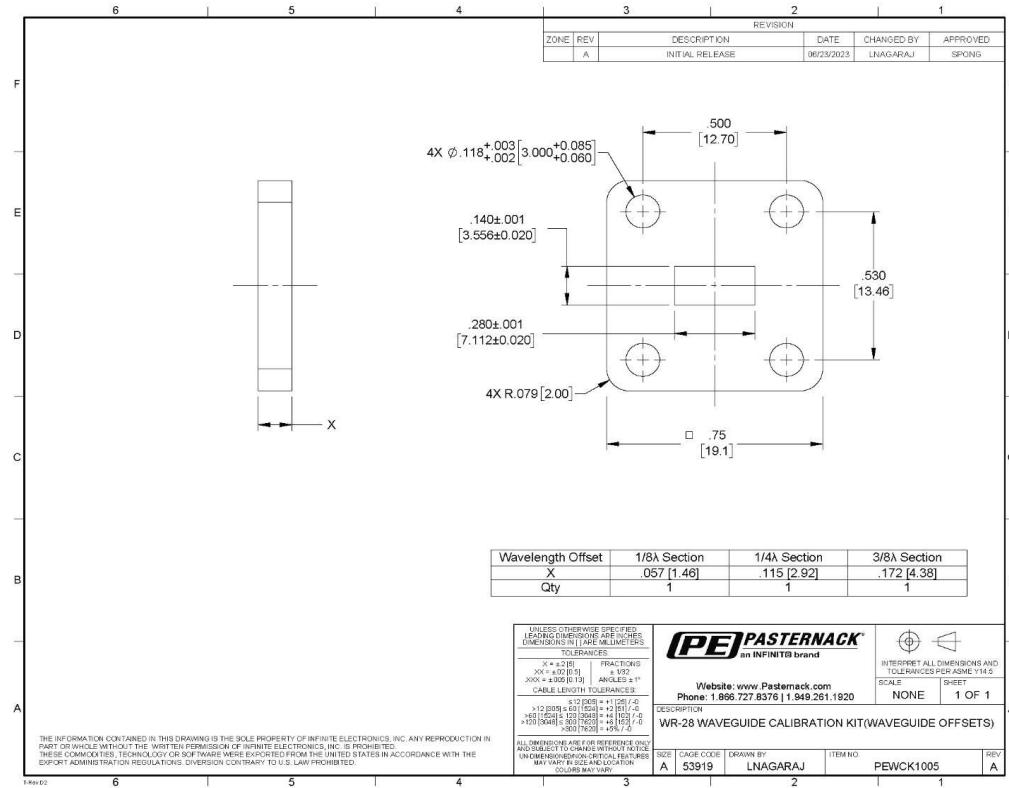
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WR-28 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section)



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz

Mechanical Specifications

Item	Description			Units
Waveguide Size	WR-28			
Flange Type	UG Square Cover			
Wavelength Offset	1/8 λ Section, 1/4 λ Section, 3/8 λ Section			
Body Material and Plating	Copper, Gold plated			
Length	1/8 λ Section	1/4 λ Section	3/8 λ Section	
	0.57 [1.46 mm]	0.115 [2.92 mm]	0.172 [4.38 mm]	inches
Dimensions (H, W)	0.75 [19.1 mm] H, 0.75 [19.1 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-28 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 26.5 to 40 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-28 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 26.5 to 40 GHz PEWCK1005](#)

URL: <https://www.pasternack.com/wr-28-adapter-short-load-offset-40-ghz-pewck1005-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.