



WR-34 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 21.7 to 33 GHz

TECHNICAL DATA SHEET

PEWCK1004

PEWCK1004 is a precision WR-34 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-34 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-34 waveguide-to-coax adapters. Additional WR-34 precision waveguide straight sections are available for purchase separately. Precision waveguide components in PEWCK1004 are designed to work in full WR-34 band from 21.7 to 33GHz. PEWCK1004 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-34 waveguide size
- Frequency range from 21.7 to 33 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-34
2.92mm
21.7 to 33 GHz

WR-34 Calibration Kit Components

Components	Frequency (GHz)	Quantity
WR-34 Waveguide to Coax Adapter with 2.92mm Female Connector	21.7 to 33 GHz	1
WR-34 Waveguide to Coax Adapter with 2.92mm Male Connector	21.7 to 33 GHz	1
WR-34 Waveguide Termination	21.7 to 33 GHz	1
WR-34 Waveguide Short	21.7 to 33 GHz	2
WR-34 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section)	21.7 to 33 GHz	3

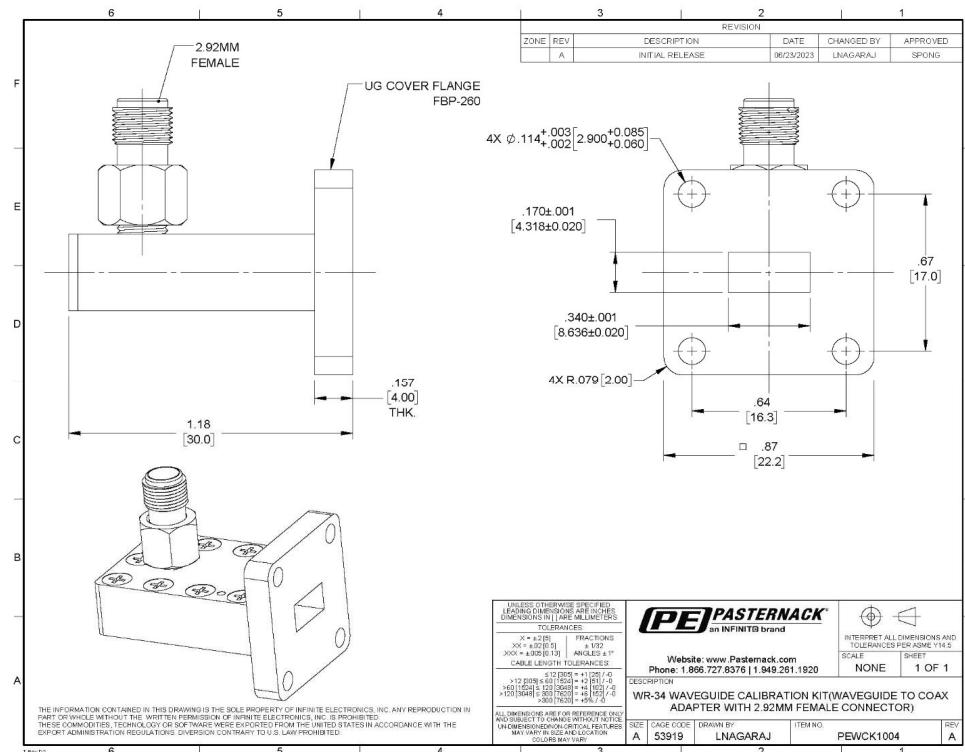
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-34 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 21.7 to 33 GHz PEWCK1004](#)



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WR-34 Waveguide to Coax Adapter with 2.92mm Female Connector



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	21.7		33	GHz
VSWR			1.2:1	
Insertion Loss			0.3	dB

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-34	
Flange Type	UG Square Cover	
RF Connector Type and Gender	2.92mm Female	
Body	Right Angle	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	1.18 [30 mm] L, 1.18 [29.95 mm] H, 0.87 [22.2 mm] W	inches

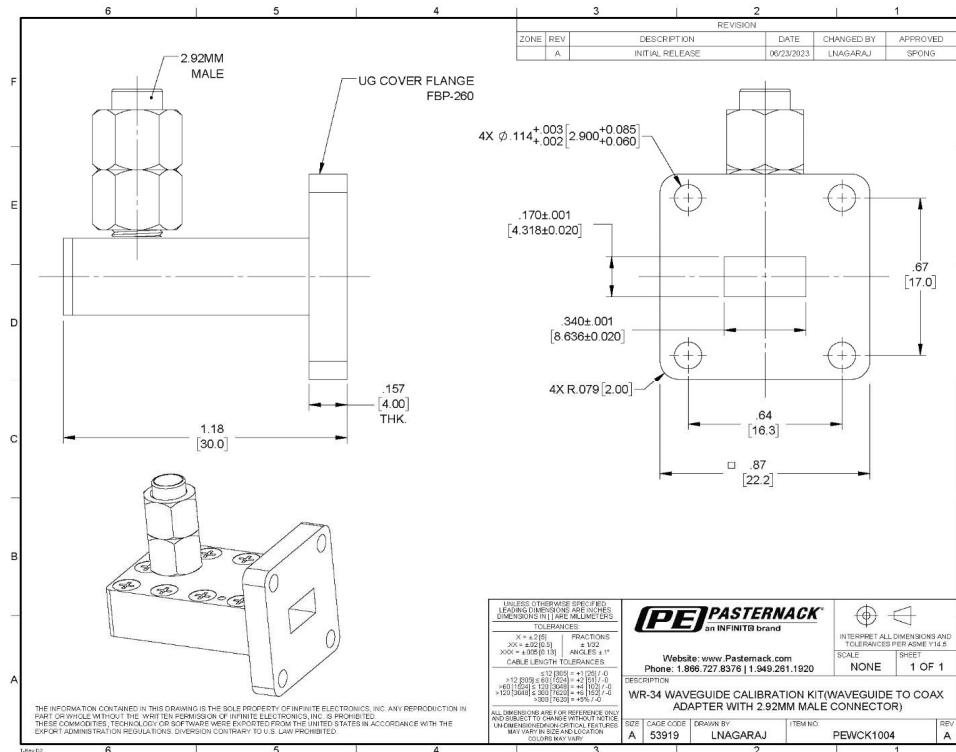
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WR-34 Waveguide to Coax Adapter with 2.92mm Male Connector



Description	Minimum	Typical	Maximum	Units
Frequency Range	21.7		33	GHz
VSWR			1.2:1	
Insertion Loss			0.3	dB

Electrical Specifications

Item	Description	Units
Waveguide Size	WR-34	
Flange Type	UG Square Cover	
RF Connector Type and Gender	2.92mm Male	
Body	Right Angle	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	1.18 [30 mm] L, 1.24 [31.4 mm] H, 0.87 [22.2 mm] W	inches

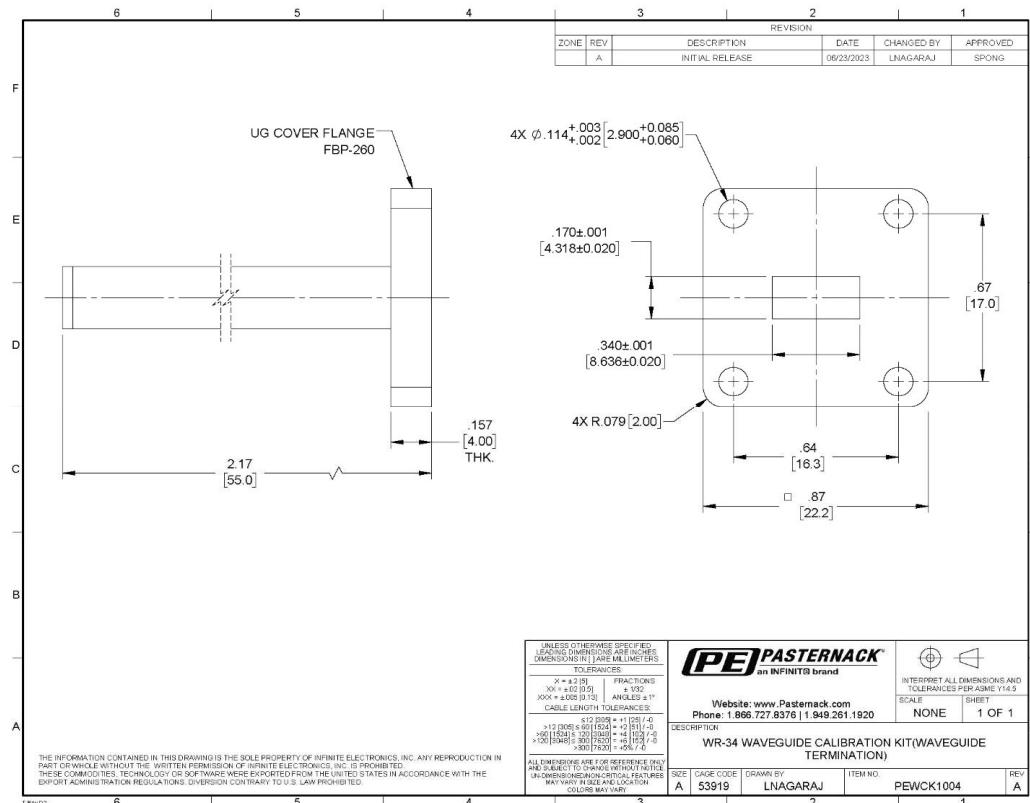
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TECHNICAL DATA SHEET

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WR-34 Waveguide Termination



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	21.7		33	GHz
VSWR			1.03:1	

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-34	
Flange Type	UG Square Cover	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	2.17 [55 mm] L, 0.87 [22.2 mm] H, 0.87 [22.2 mm] W	inches

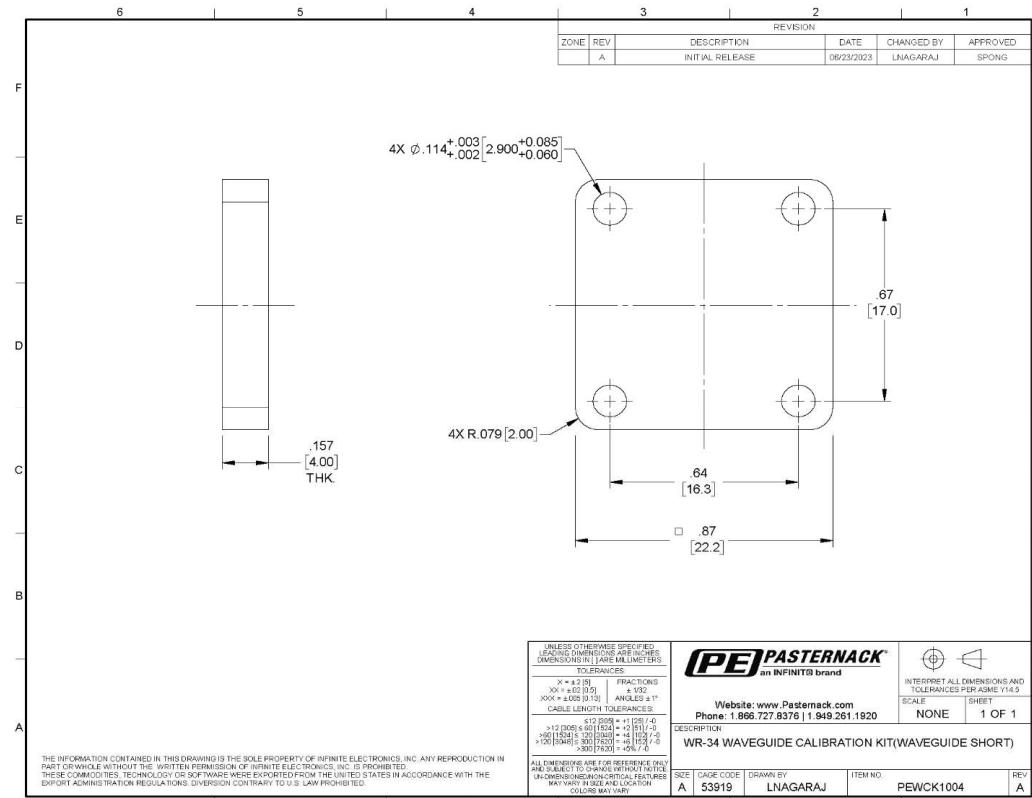
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WR-34 Waveguide Short



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	21.7		33	GHz
VSWR	60:1			

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-34	
Flange Type	UG Square Cover	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	0.157 [4 mm] L, 0.87 [22.2 mm] H, 0.87 [22.2 mm] W	inches

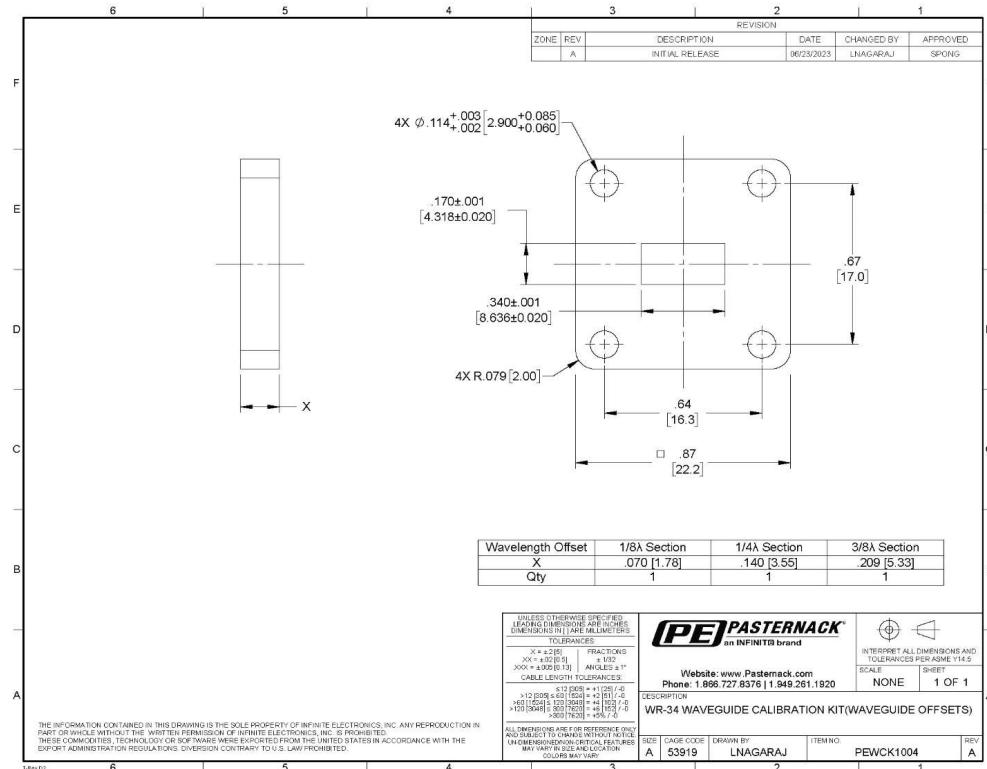
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WR-34 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section)



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	21.7		33	GHz

Mechanical Specifications

Item	Description			Units
Waveguide Size	WR-34			
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	
	0.07 [1.78 mm]	0.14 [3.55 mm]	0.209 [5.33 mm]	inches
Dimensions (H, W)	0.87 [22.2 mm] H, 0.87 [22.2 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-34 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 21.7 to 33 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-34 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 21.7 to 33 GHz PEWCK1004](#)

URL: <https://www.pasternack.com/wr-34-adapter-short-load-offset-33-ghz-pewck1004-p.aspx-p.aspx>

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