



WR-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 GHz

TECHNICAL DATA SHEET

PEWCK1001

PEWCK1001 is a precision WR-75 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-75 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-75 waveguide-to-coax adapters. Additional WR-75 precision waveguide straight sections are available for purchase separately. Precision waveguide components in PEWCK1001 are designed to work in full WR-75 band from 9.84 to 15 GHz. PEWCK1001 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-75 waveguide size
- Frequency range from 9.84 to 15 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-75
N
9.84 to 15 GHz

WR-75 Calibration Kit Components

Components	Frequency (GHz)	Quantity
WR-75 Waveguide to Coax Adapter with N-Type Female Connector	9.84 to 15 GHz	1
WR-75 Waveguide to Coax Adapter with N-Type Male Connector	9.84 to 15 GHz	1
WR-75 Waveguide Termination	9.84 to 15 GHz	1
WR-75 Waveguide Short	9.84 to 15 GHz	2
WR-75 Waveguide Offsets (1/8λ Section, 1/4λ Section, 3/8λ Section)	9.84 to 15 GHz	3

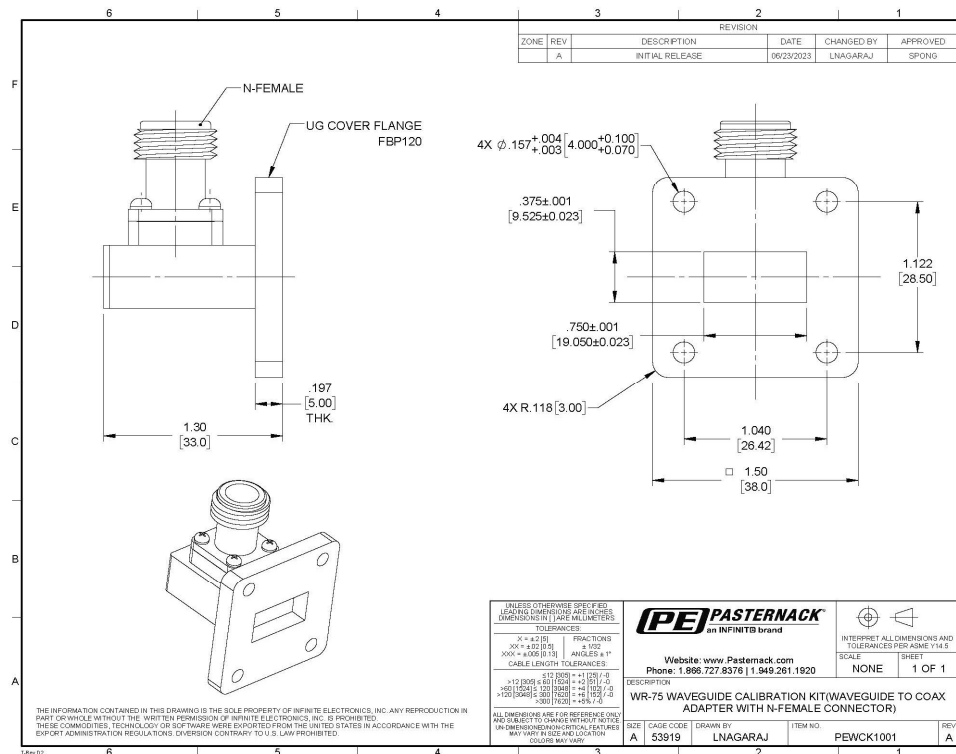
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 GHz PEWCK1001](#)



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WR-75 Waveguide to Coax Adapter with N-Type Female Connector



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	9.84		15	GHz
VSWR			1.2:1	
Insertion Loss			0.2	dB

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-75	
Flange Type	UG Square Cover	
RF Connector Type and Gender	N-Type Female	
Body	Right Angle	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	1.3 [33 mm] L, 1.9 [48.6 mm] H, 1.5 [38 mm] W	inches

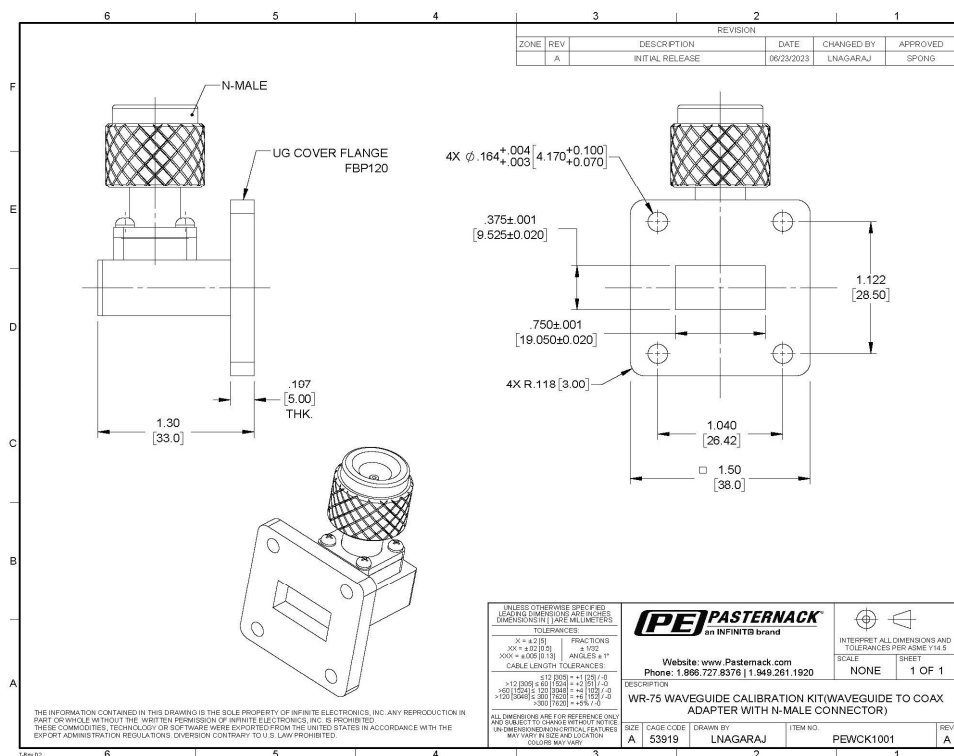
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 GHz PEWCK1001](#)



TECHNICAL DATA SHEET

PEWCK1001

WR-75 Waveguide to Coax Adapter with N-Type Male Connector

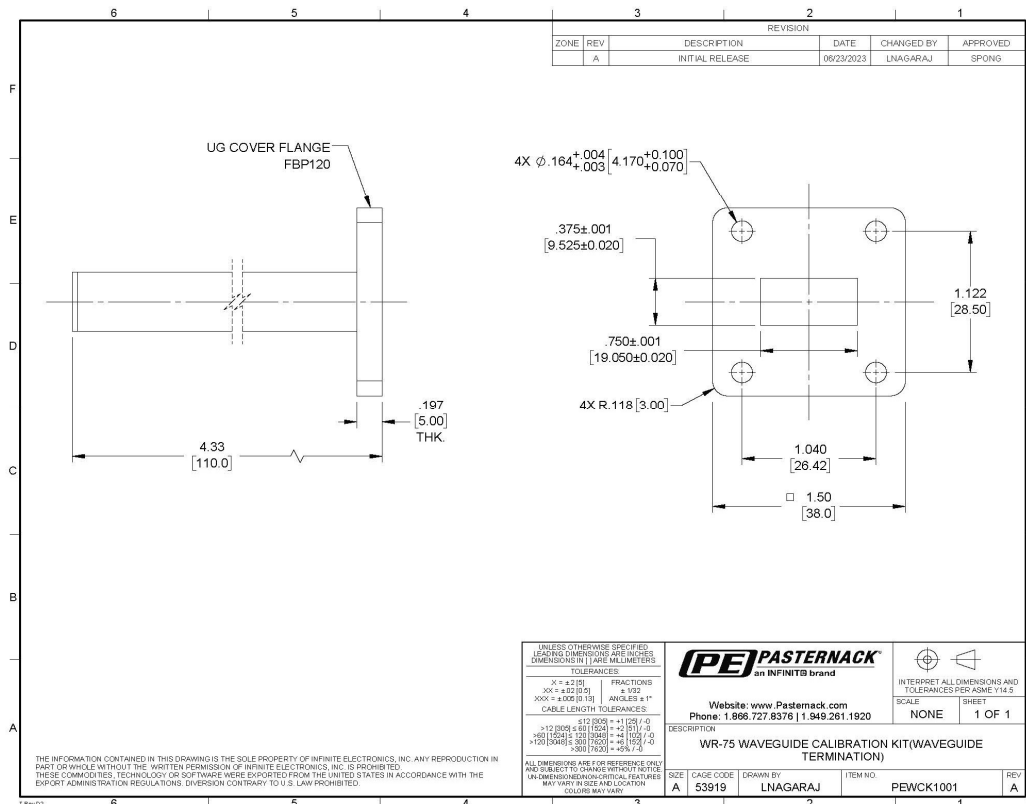




TECHNICAL DATA SHEET

PEWCK1001

WR-75 Waveguide Termination



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	9.84		15	GHz
VSWR			1.03:1	

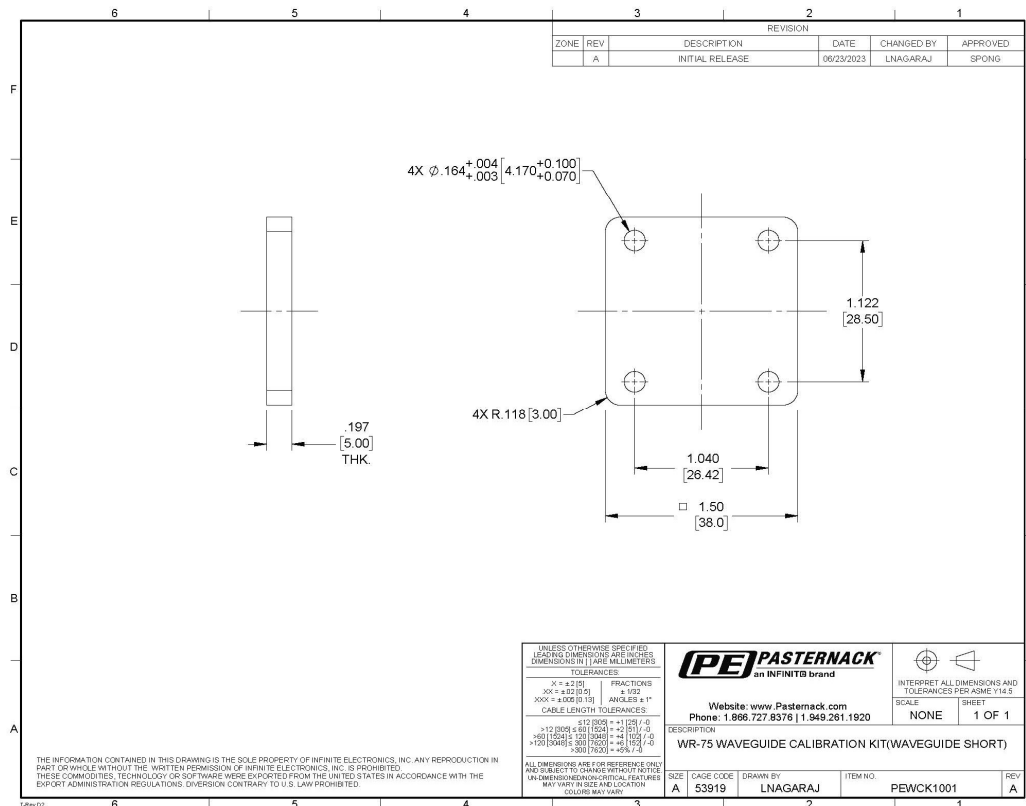
Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-75	
Flange Type	UG Square Cover	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	4.33 [110 mm] L, 1.5 [38 mm] H, 1.5 [38 mm] W	inches

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 GHz PEWCK1001](#)

PEWCK1001

WR-75 Waveguide Short



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	9.84		15	GHz
VSWR	60:1			

Mechanical Specifications

Item	Description	Units
Waveguide Size	WR-75	
Flange Type	UG Square Cover	
Body Material and Plating	Copper, Silver plated	
Housing	Black Paint	
Dimensions	0.197 [5 mm] L, 1.5 [38 mm] H, 1.5 [38 mm] W	inches

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 GHz PEWCK1001](#)

PEWCK1001

6 5 4 3 2 1

F

E

D

C

B

A

4X $\phi .164^{+.004}_{-.003}$ $\left[4.170^{+0.100}_{+0.070} \right]$

.375 \pm .001
[9.525 \pm 0.020]

.750 \pm .001
[19.050 \pm 0.020]

4X R.118 [3.00]

1.040
[26.42]

1.50
[38.0]

1.122
[28.50]

X

Wavelength Offset	1/8λ Section	1/4λ Section	3/8λ Section
X	.154 [3.90]	.307 [7.81]	.461 [11.71]
Qty	1	1	1

UNLESS OTHERWISE SPECIFIED:
LENGTHS AND DIMENSIONS ARE IN INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES

X ± .010	FRACTIONS	± .002
XXX ± .000 (0.1)	ANGLES	± 1°

CABLE LENGTH TOLERANCES

>12 [305.4] ± .001 [0.025]	± .0005 [0.0127]	± .0005 [0.0127]
>12 [305.4] ± .001 [0.025]	± .001 [0.0254]	± .001 [0.0254]
>12 [305.4] ± .001 [0.025]	± .001 [0.0254]	± .001 [0.0254]
>12 [305.4] ± .001 [0.025]	± .001 [0.0254]	± .001 [0.0254]

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE
UNLESS OTHERWISE SPECIFIED, FEATURES
MAY VARY IN TYPE AND LOCATION
COLORS MAY VARY

IPE PASTERNAK
an INFINITIB brand

Website: www.Pasternak.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

WR-75 WAVEGUIDE CALIBRATION KIT (WAVEGUIDE OFFSETS)

SCALE: NONE

SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	LNAGARAJ	PEWCK1001	A

Description	Minimum	Typical	Maximum	Units
Frequency Range	9.84		15	GHz

Item	Description			Units
Waveguide Size	WR-75			
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	
	0.154 [3.9 mm]	0.307 [7.81 mm]	0.461 [11.71 mm]	inches
Dimensions (H, W)	1.5 [38 mm] H, 1.5 [38 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-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 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-75 Calibration Kit Including Waveguide to Coax Adapter, Termination, Short, and Offsets Components Operating From 9.84 to 15 GHz PEWCK1001](#)

URL: <https://www.pasternack.com/wr-75-adapter-short-load-offset-15-ghz-pewck1001-p.aspx-p.aspx>

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