



## 3.5mm Male Short Open Load Thru (SOLT) Analyzer Calibration Kit, portable 4-in-1, Operating from DC to 26.5 GHz

### Calibration Kits 3 Port Technical Data Sheet

PE5CK1013

#### Features

- Single Compact 4-in-1 Package
- Lightweight
- Gold Plated Short Open Load Thru
- Lanyard Included
- In Stock and Ready to Ship

#### Applications

- Vector Network Analyzer Calibration
- SOLT or OSLT Calibration
- Base Station Analyzers
- Site Maintenance
- Tower Measurements
- 3.5mm Open Short Load Thru Calibration

#### Description

Pasternack's PE5CK1013 3.5mm male short open load thru (SOLT) analyzer calibration kit is part of our full line of RF components available for same-day shipping. This SOLT, portable 4-in-1 cal kit is integrated into a single compact package, making it ideal for portable SOLT (OSLT) calibrations on base station analyzers, VNAs and spectrum analyzers. This 4-in-1 short open load thru calibration kit is suitable for use on almost all network and site analyzers which support SOLT calibration. The small compact unit can be easily stored in a tool kit, tote or even pocket. The included thru connection allows this cal kit to be used for non-insertable devices, including cable assemblies and filters.

Our 3.5mm male SOLT 4-in-1 calibration kit datasheet, specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave components allow designers to configure and customize their test solutions however they like. Whether the need is to provide open short load thru (OSLT) calibrations or tower measurements, Pasternack can ship you the right components same day.

#### Configuration

Connector Calibration Kit Component 3.5mm Male Short Open Load Thru 4-in-1

#### Open

#### Short

#### Load

#### Mechanical Specifications

##### Size

Weight 2.752 lbs [1.25 Kg]

##### Connector

Type 3.5mm Male Short Open Load Thru  
Contact Material and Plating Beryllium Copper, Gold  
Body Material and Plating Beryllium Copper, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Short Open Load Thru \(SOLT\) Analyzer Calibration Kit, portable 4-in-1, Operating from DC to 26.5 GHz PE5CK1013](#)



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#### OPEN

ELECTRICAL	MIN	TYP	MAX	UNIT
FREQUENCY RANGE	DC - 26.5			GHz
IMPEDANCE	50			$\Omega$
PHASE (DC - 3 GHz)		0.65		degree
PHASE (3 - 8 GHz)		1.2		degree
PHASE (8 - 26.5 GHz)		2		degree
CAPACITANCE	$C0 \times 10^{-15} = 49.433$			F
	$C1 \times 10^{-27} = -310.13$			F/Hz
	$C2 \times 10^{-36} = 23.168$			F/Hz <sup>2</sup>
	$C3 \times 10^{-45} = -0.15966$			F/Hz <sup>3</sup>
DELAY	29.243			ps
LOSS	2.2			G $\Omega$ /s
CONNECTOR THREAD	1/4 - 36 UNS			inch
DIMENSION	0.394 ( $\varnothing$ ) x 0.976 (L) $\pm$ 0.02			inch

#### SHORT

ELECTRICAL	MIN	TYP	MAX	UNIT
FREQUENCY RANGE	DC - 26.5			GHz
IMPEDANCE	50			$\Omega$
PHASE (DC - 3 GHz)		0.65		degree
PHASE (3 - 8 GHz)		1.2		degree
PHASE (8 - 26.5 GHz)		2		degree
INDUCTANCE	$L0 \times 10^{-12} = 2.0765$			F
	$L1 \times 10^{-24} = -108.54$			F/Hz
	$L2 \times 10^{-33} = 2.1705$			F/Hz <sup>2</sup>
	$L3 \times 10^{-42} = -0.01$			F/Hz <sup>3</sup>
DELAY	31.785			ps
LOSS	2.36			G $\Omega$ /s
CONNECTOR THREAD	1/4 - 36 UNS			inch
DIMENSION	0.394 ( $\varnothing$ ) x 0.976 (L) $\pm$ 0.02			inch

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**LOAD**

ELECTRICAL	MIN	TYP	MAX	UNIT
FREQUENCY RANGE	DC - 26.5			GHz
IMPEDANCE	50			$\Omega$
RETURN LOSS (DC - 3 GHz)	40	44		dB
RETURN LOSS (3 - 6 GHz)	36	40		dB
RETURN LOSS (6 - 26.5 GHz)	30	34		dB
CONNECTOR THREAD	1/4 - 36 UNS			inch
DIMENSION	0.394 ( $\phi$ ) x 1.45 (L) $\pm$ 0.02			inch

**THROUGH MALE TO MALE**

ELECTRICAL	MIN	TYP	MAX	UNIT
FREQUENCY RANGE	DC - 26.5			GHz
IMPEDANCE	50			$\Omega$
INSERTION LOSS (DC - 26.5 GHz)		0.1	0.2	dB
RETURN LOSS (DC - 8 GHz)	30	34		dB
RETURN LOSS (8 - 18 GHz)	28	32		dB
RETURN LOSS (18 - 26.5 GHz)	26	30		dB
CONNECTOR THREAD	1/4 - 36 UNS			inch
DIMENSION	0.354 ( $\phi$ ) x 1.24 (L) $\pm$ 0.02			inch

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#### USAGE NOTES

1. After use please replace protective covers on all connectors.  
We recommend using an anti-humidity case for storage.
2. Keep connectors clean.
3. Minimize touches with the connectors.
4. Do not drop the units, especially onto the connectors.
5. Do not insert male pins with a diameter greater than 0.933mm [0.0366 in]. This will damage the female connector.
6. Do not mix different connectors (2.4mm, 1.85mm, and 1.0mm) to avoid damage to the connectors.
7. When connecting female and male connectors, do not move the female connector of the standard kit. This would damage (loosen) the female connector.
8. When connecting female and male connectors, rotate the hex nut of the standard kit male connector (do not move the male connector) slowly to screw onto the female connector thread (do not move the female connector).
9. Visually check the connector threads before use.
10. Use alcohol and lint-free wipes to clean center conductor pin. Wipe the outer conductor in a circular motion.
11. For best results, use at temperatures between 18°C and 28°C.
12. The little difference of gold-plating layer between components does not affect the electrical performance.
13. Torque wrench setting should be at 8 in-lb.

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

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

3.5mm Male Short Open Load Thru (SOLT) Analyzer Calibration Kit, portable 4-in-1, Operating from DC to 26.5 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.

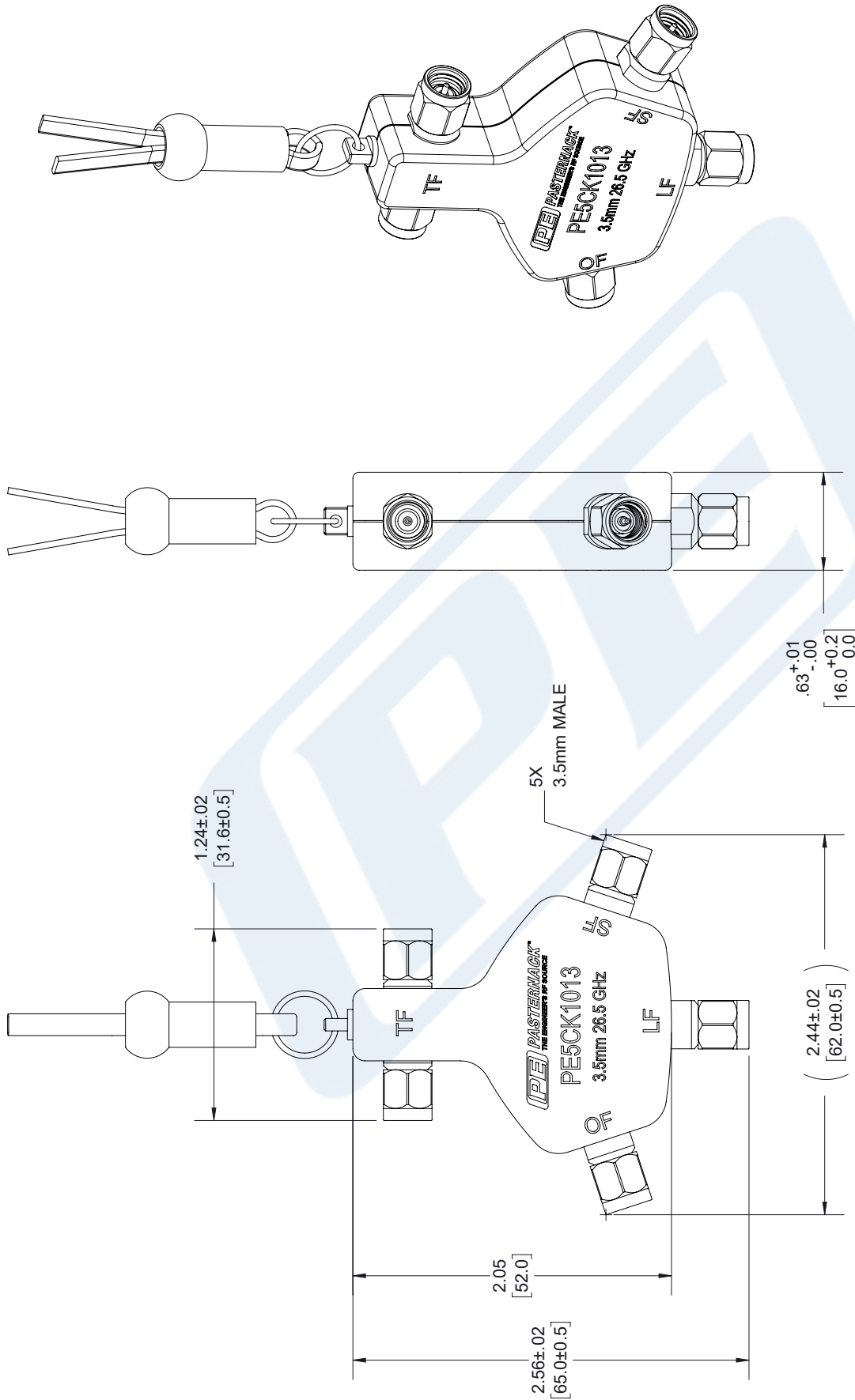
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URL: <https://www.pasternack.com/50ohm-3.5mm-male-open-short-load-26.5-mhz-pe5ck1013-p.aspx>

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. 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.

# PE5CK1013 CAD Drawing

3.5mm Male Short Open Load Thru (SOLT) Analyzer Calibration  
Kit, portable 4-in-1, Operating from DC to 26.5 GHz



\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE5CK1013

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].

CAGE CODE 53919

CAD FILE 020718

SCALE N/A

SIZE A

7361