



## 2.4mm Female Precision Calibration Kit Component Short Operating from DC to 50 GHz

### Calibration Kits Components Technical Data Sheet

PE5SC3010

#### Features

- Precision Controlled Impedance
- Controlled Electrical Length
- Published Calibration Coefficients
- Replaces Existing Calibrating Kit Components
- Serial Numbers on Shorts, Opens and Loads
- In Stock and Ready to Ship

#### Applications

- Vector Network Analyzer Calibration
- SOLT or OSLT Calibration
- Device Characterization
- De-embedding
- Precision Calibrating Kits

#### Description

Pasternack's PE5SC3010 2.4mm female precision short circuit is part of our full line of RF components available for same-day shipping. This 2.4mm, precision short circuit is suitable for calibrating on most network and site analyzers. Calibration coefficients for this 2.4mm short circuit are included in the datasheet and can be keyed in to most VNAs to provide a replacement for your broken or misplaced component. The controlled impedance and electrical length of this component support calibrations through the entire frequency range of the precision connector interface.

Our 2.4mm female precision short circuit 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 precise SOLT / OSLT network analyzer calibrations or calibration kit replacement, Pasternack can ship you the right components same day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Phase Accuracy		±2		deg
Offset Loss	2.806			GOhm/s
Electrical Delay	16.929			ps
Inductance				
L0	0			$10^{-12}$ H
L1	0			$10^{-24}$ H/Hz
L2	0			$10^{-33}$ H/Hz <sup>2</sup>
L3	0			$10^{-42}$ H/Hz <sup>3</sup>
...				

#### Mechanical Specifications

Pin Depth	0 to 0.002 in
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Female Precision Calibration Kit Component Short Operating from DC to 50 GHz PE5SC3010](#)



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#### Connector 1

Connector Type  
Body Material and Plating

2.4mm Female  
Beryllium Copper, Gold

#### Connector 2

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

2.4mm Female Precision Calibration Kit Component Short Operating from DC to 50 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.

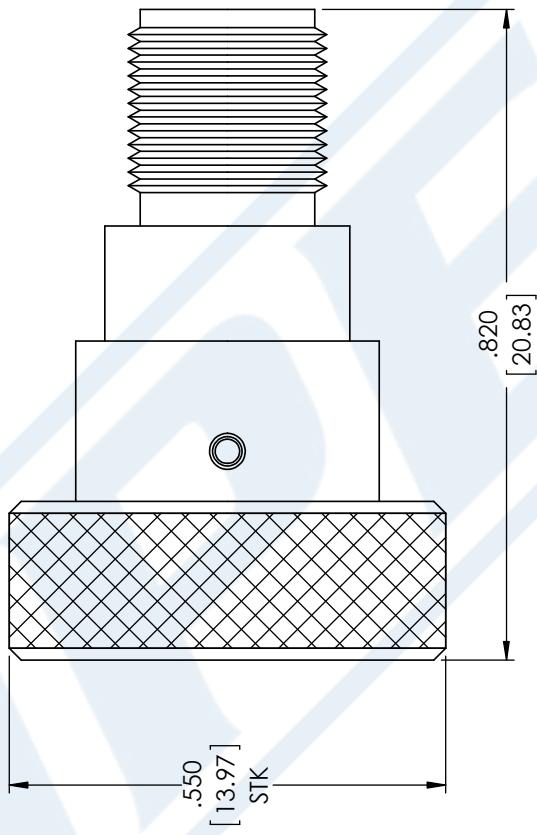
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URL: <https://www.pasternack.com/2.4mm-female-calibration-kit-component-short-50-ghz-pe5sc3010-p.aspx>

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.

# PE5SC3010 CAD Drawing

2.4mm Female Precision Calibration Kit Component Short Operating from DC to 50 GHz



STANDARD TOLERANCES		
X	$\pm 0.2$	
.XX	$\pm 0.01$	
.XXX	$\pm 0.005$	

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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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].

SIZE A	SCALE N/A	SCALE N/A	CAD FILE	02/06/18	DWG TITLE
CN2245					PE5SC3010