PASTERNACK®
THE ENGINEER'S RF SOURCE



3.5mm General Purpose Calibration Kit Component Thru Operating From DC to 26.5 GHz

TECHNICAL DATA SHEET PE5SC3002

Pasternack's PE5SC3002 offers excellent performance characteristics that is specially designed for the fine-tuning and calibration of sensitive test equipment in engineering labs, production environments, and quality testing facilities. All of our calibration kits & components are built to withstand years of rigorous use and provide accurate RF equipment calibration for the life of the product. Pasternack's broad portfolio of test and measurement components offer users a variety of options that are technically and economically suitable for a broad spectrum of RF applications and environments.

As a leading solutions provider of RF calibration instruments and compatible RF components, you can rely on Pasternack to have all of the T&M products you need in-stock and available to ship same-day.

Features

- Functional from DC to 26.5 GHz
- See PE5CK1000 for full standard kit which includes (9) 3.5mm short-open-load-thru (SOLT) components
- Suitable for many 50 Ohm network analyzers including, but not limited to:
  - Agilent / HP (N5222A/24A, N5225A/27A, N5232A, N5234A/35A, N5242A/44A, N5245/47A)
  - Rohde & Schwarz (ZVB, ZNB)
  - Anritsu (MS2038C, MS2028C, MS2027C, MS4640B)

Applications

- VNA, Full 2-Port CAL
- VNA, Thru CAL
- VNA, Substitution CAL Method
- Test & Measurement
- Lab Equipment Accessories
- Engineering Test and Evaluation
- General Purpose Test and Evaluation

Configuration

Connector	3.5mm
Component Type	Thru
Impedance	50 Ohms
Frequency Range	DC to 26.5 GHz

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 26.5		GHz
Impedance		50		Ohm
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

Mechanical Specifications

Item	Description	Units
Housing	Gold plated Copper	
Center Pin	Gold plated Beryllium	
Connector	50 Ohm 3.5mm Female to Male	
Connector Screw Thread	1/4"-36 UNS	Inch
Dimensions	0.335 [8.5] ø, 1.213 [30.8] L	Inch [mm]
Net Weight	9.4	g

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.5mm General Purpose Calibration Kit Component Thru Operating From DC to 26.5 GHz PE5SC3002

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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General Instructions and Usage Notes

#	Notes
1	Keep provided protective blue caps installed when not in use.
2	Store in climate controlled environment.
3	Always keep connectors clean.
4	Avoid touching the connector interface.
5	Use caution when handling.
6	For female components, do not insert male pin greater than 0.037" [.94 mm]. **Failure to comply will result in damage to the female connector.**
7	When mating, always ensure that the components to be interconnected remain in a fixed position while rotating ***only the coupling nut*** slowly to mate the connectors.
8	When de-mating, always ensure that the interconnected components remain in a fixed position while rotating ***only the coupling nut*** slowly to de-mate the connectors.
9	Visually inspect the connector threads prior to use. If needed, clean the center conductor pin and outer conductor with alcohol to remove any debris that may be present. **Be sure to apply the alcohol in a circular motion with a lint-free cloth or applicator.**
10	Use at room temperature.
11	Torque wrench provided is intended for 3.5mm connector types and is calibrated to 8 in-lbs.

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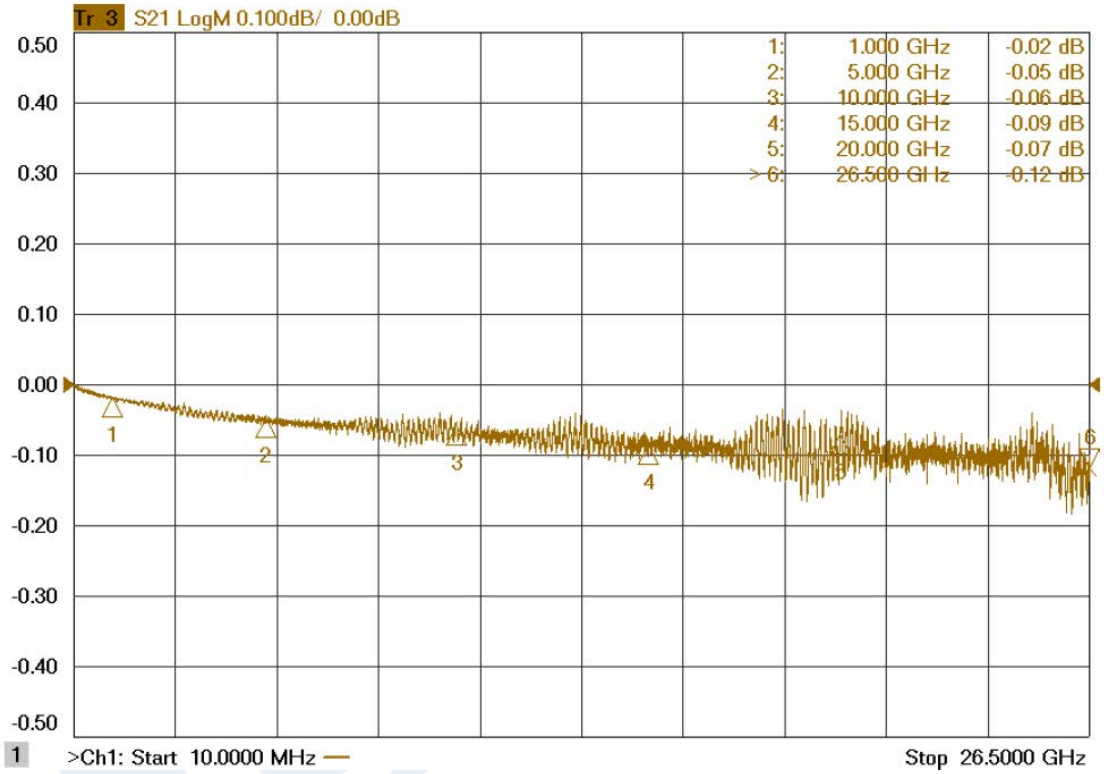


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Typical Performance Data

PE5SC3002 Insertion Loss
Span: 26.5 GHz



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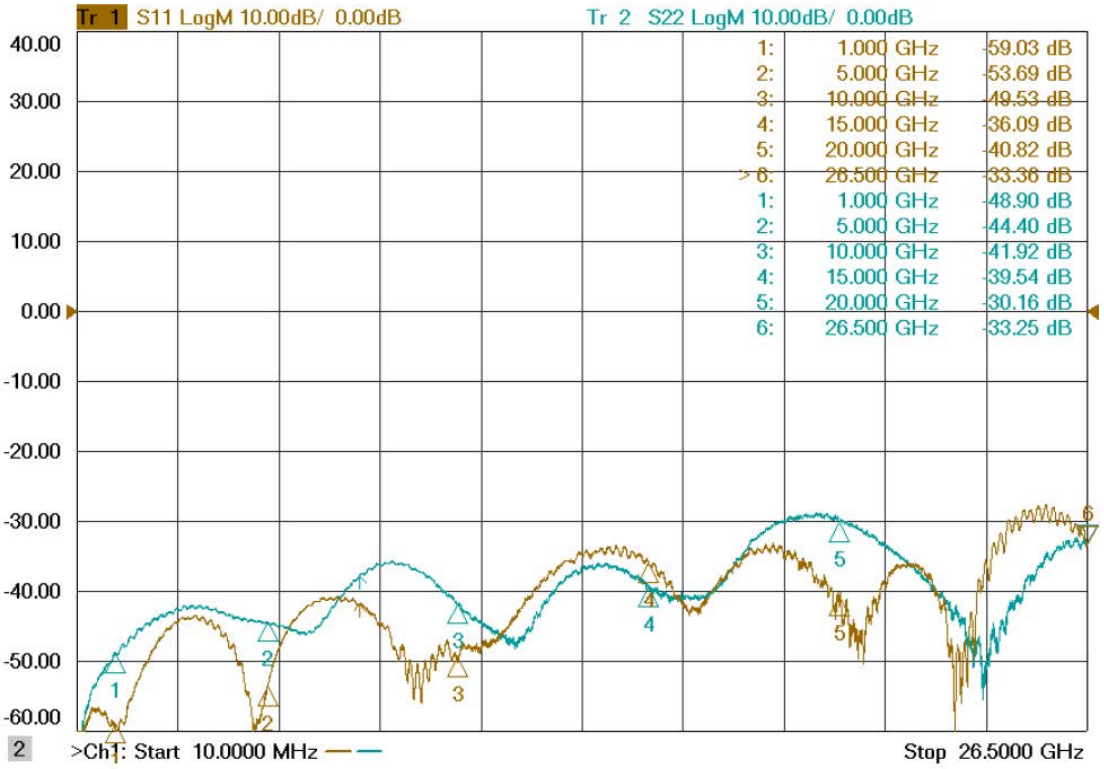
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PE5SC3002 Return Loss
Span: 26.5 GHz



Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant
REACH Compliant 06/16/2014

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

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3.5mm General Purpose Calibration Kit Component Thru 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% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 3.5mm General Purpose Calibration Kit Component Thru Operating From DC to 26.5 GHz PE5SC3002

URL: http://www.pasternack.com/50ohm-3.5mm-calibration-kit-component-thru-26.5-ghz-pe5sc3002-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.

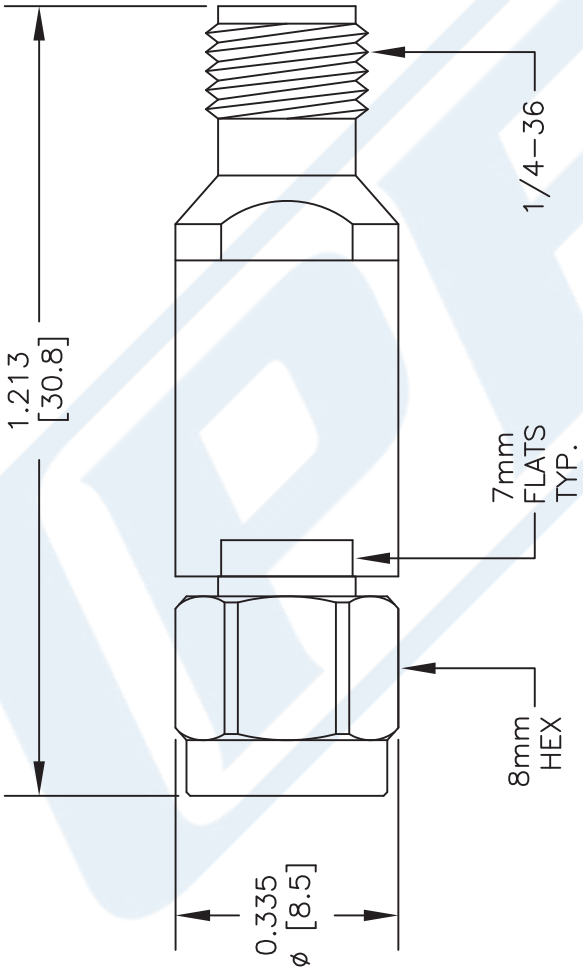
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PE5SC3002 CAD Drawing

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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].

DWG TITLE **PE5SC3002**

CAD FILE 101614 | SCALE N/A | SIZE A | 150

FSCM NO. 53919

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