75 Ohm F General Purpose Calibration Kit Including Short Circuit, Open Circuit, Load and Thru Components Operating From DC to 3 GHz

PE5CK1002

Features

- Functional from DC to 3 GHz
- Standard kit includes (7) F Type short-open-load-thru (SOLT) components
- Suitable for many 75 Ohm network analyzers including, but not limited to:
- Agilent / HP (8711/8713/8714, 8753E-075, E5061A, E5062A, E 5061B)
- Rohde & Schwarz (R&S ZVL3-75 [9KHz - 3GHz, Built-in 85039B Calibration Kit Option])
- Tianda (TD3618C/E)
- OuFu (OF7631B, OF7633B)
- Copper Mountain (7530)
- Deviser (NA7300B, NA7100B)
- EI41 (AV36580A)
- PNA (PNA3766)

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

Description

Pasternack's PE5CK1002 Calibration Kit 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 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.

Configuration

Connector	F
Impedance	75 Ohms
Frequency Range	DC to 3 GHz

PE5CK1002 Standard Kit Specifications

Part Number	Frequency Range	Connector Type	Connector Gender	Type	Impedance
PE5SC2004	DC - 3000 MHz	F Type	Female	Open	75 Ohm
PE5SC2005	DC - 3000 MHz	F Type	Male	Open	75 Ohm
PE5SC1004	DC - 3000 MHz	F Type	Female	Short	75 Ohm
PE5SC1005	DC - 3000 MHz	F Type	Male	Short	75 Ohm
PE5TR1004	DC - 3000 MHz	F Type	Female	Load	75 Ohm
PE5TR1005	DC - 3000 MHz	F Type	Male	Load	75 Ohm
PE5SC3005	DC - 3000 MHz	F Type	Female to Female	Thru	75 Ohm

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PE5SC2004 F Type Female Open Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		75		Ohm
Phase, DC - 1000 MHz	1°	Nominal	1°	Degrees
Phase, 1001 - 3000 MHz	2°	Nominal	2°	Degrees

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Female	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.63 [16] ø, 1.398 [35.5] L	Inch [mm]
Net Weight	35	g

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PE5SC2005 F Type Male Open Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC - 3000			MHz
Impedance	75			Ohm
Phase, DC - 1000 MHz	1°	Nominal	1°	Degrees
Phase, 1001 - 3000 MHz	2°	Nominal	2°	Degrees

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Male	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.63 [16] ø, 1.626 [41.3] L	Inch [mm]
Net Weight	45.2	g

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PE5SC1004 F Type Female Short Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		75		Ohm
Phase, DC - 1000 MHz	1°	Nominal	1°	Degrees
Phase, 1001 - 3000 MHz	2°	Nominal	2°	Degrees

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Female	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.63 [16] ø, 1.398 [35.5] L	Inch [mm]
Net Weight	36.6	g

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PE5SC1005 F Type Male Short Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		75		Ohm
Phase, DC - 1000 MHz	1°	Nominal	1°	Degrees
Phase, 1001 - 3000 MHz	2°	Nominal	2°	Degrees

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Male	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.63 [16] ø, 1.626 [41.3] L	Inch [mm]
Net Weight	47	g

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PE5TR1004 F Type Female Load Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		75		Ohm
Return Loss, DC - 1000 MHz	38	40		dB
Return Loss, 1001 - 3000 MHz	36	38		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Female	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.697 [17.7] ø, 1.532 [38.9] L	Inch [mm]
Net Weight	45.8	g

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PE5TR1005 F Type Male Load Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		75		Ohm
Return Loss, DC - 1000 MHz	38	40		dB
Return Loss, 1001 - 3000 MHz	36	38		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Male	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.697 [17.7] ø, 1.76 [44.7] L	Inch [mm]
Net Weight	54.6	g

75 Ohm F General Purpose Calibration Kit Including Short Circuit, Open Circuit, Load and Thru Components Operating From DC to 3 GHz

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PE5SC3005 F Type Female to Female Thru Specifications

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC - 3000			MHz
Impedance	75			Ohm
Insertion Loss, DC - 3000 MHz		0.05	0.2	dB
Return Loss, DC - 1000 MHz	40	45		dB
Return Loss, 1001 - 3000 MHz	30	35		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type Female (Both Ends)	
Connector Screw Thread	W3/8"-32 UNEF	Inch
Dimensions	0.623 [15.8] ø, 1.402 [35.6] L	Inch [mm]
Net Weight	21.2	g

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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.

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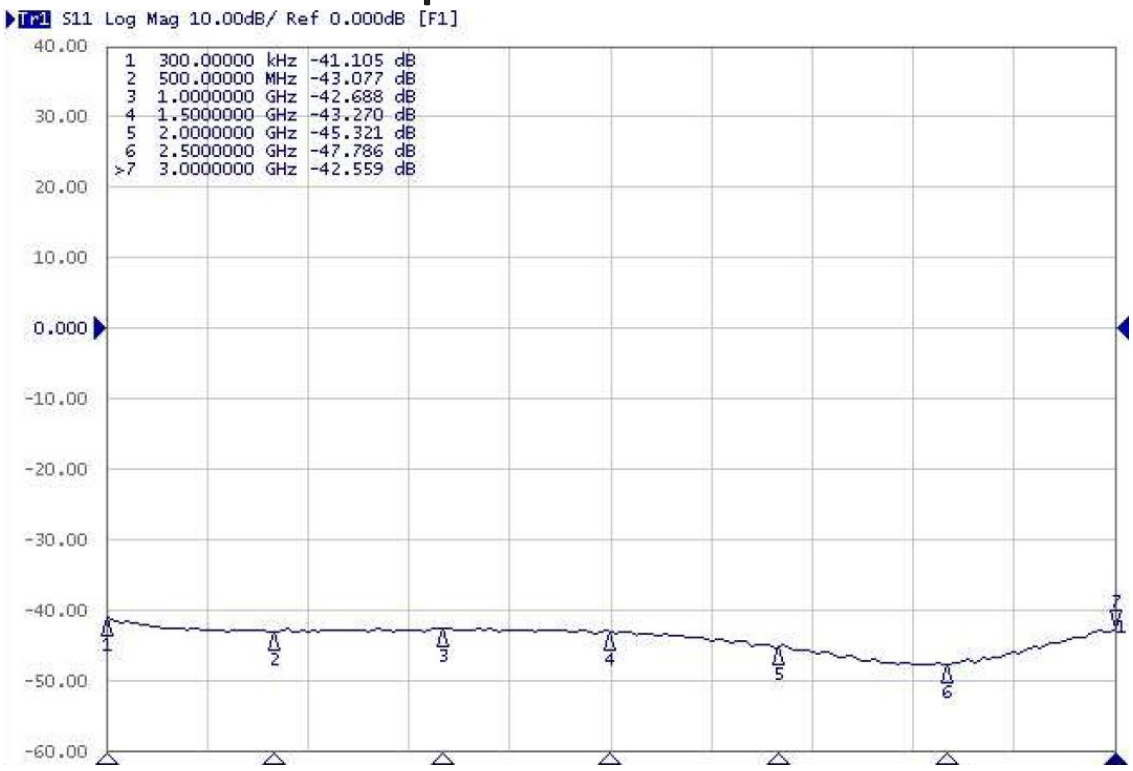
Typical Performance Data

PE5TR1004 Return Loss
Span: 3000 MHz



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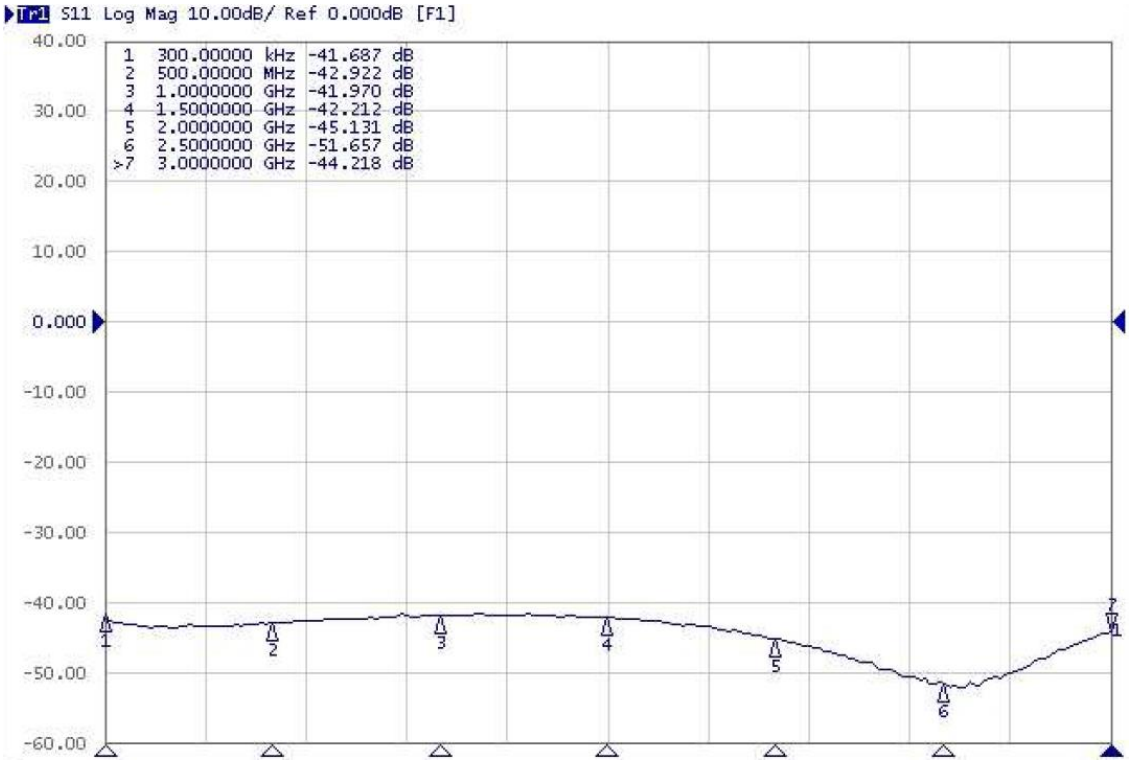
PE5CK1002

PE5TR1005 Return Loss
Span: 3000 MHz



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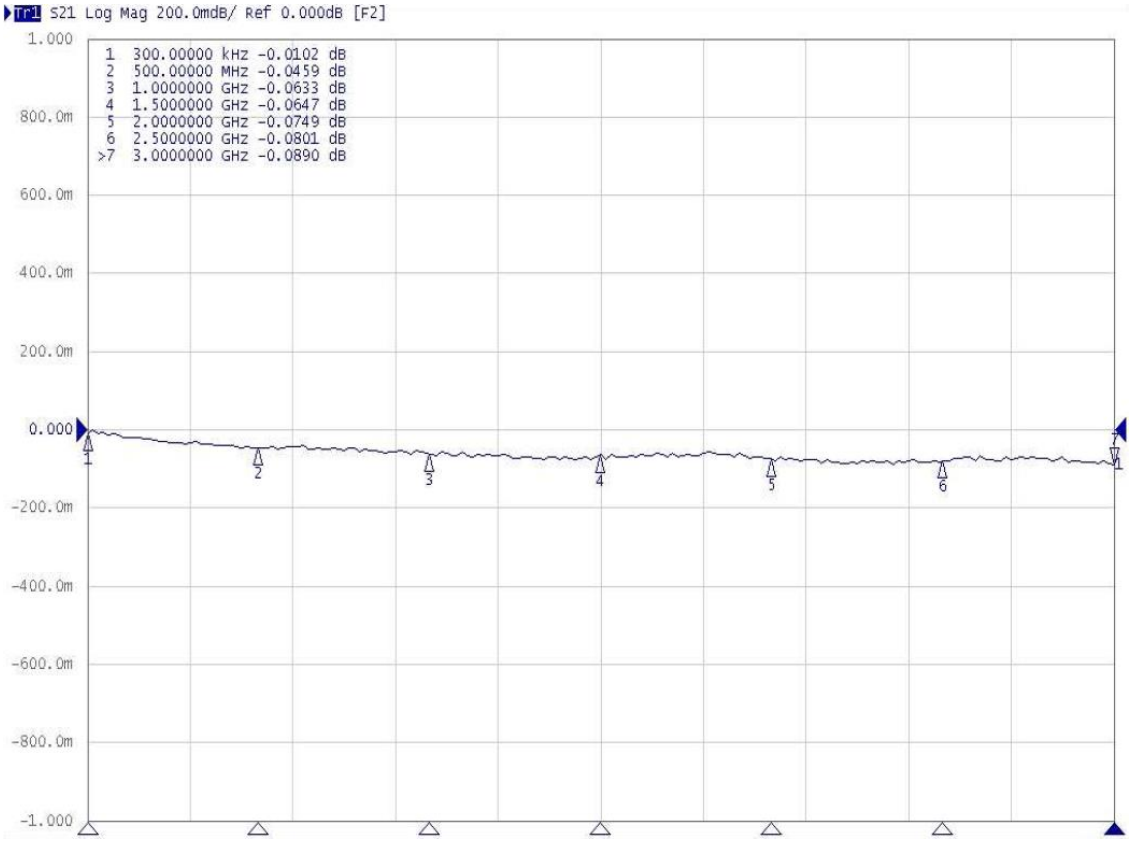
PE5SC3005 Insertion Loss
Span: 3000 MHz



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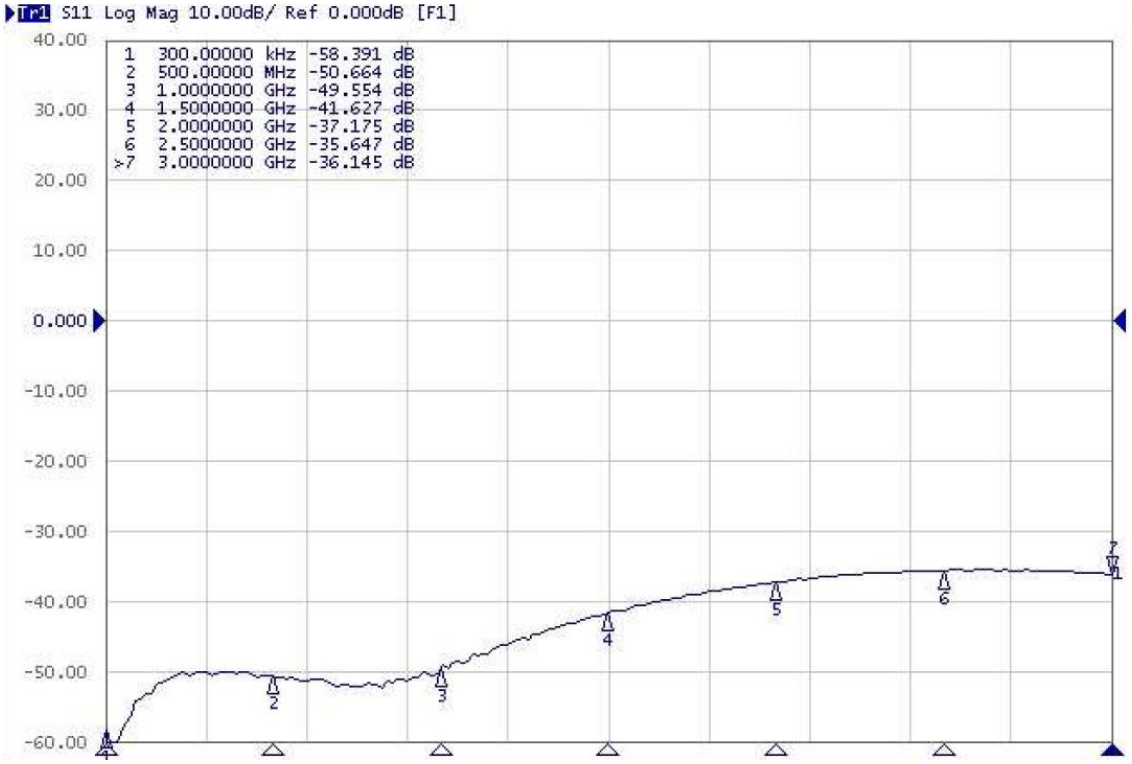
PE5SC3005 Return Loss
Span: 3000 MHz



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Standard Kit Definitions

Item	Type	C0*10^-15 F	C1*10^-27 F/Hz	C2*10^-36 F/Hz^2	C3*10^-45 F/Hz^3	Fixed or Sliding	Offset			Freq (GHz)	
							Delay (ps)	Z0 (ohm)	Loss (ohm/s)	Min	Max
PE5SC2004	Open Female	42.945	98.367	706.93	-114.957		53.6	75	1.64G	0	999
PE5SC2005	Open Male	42.945	98.367	706.93	-114.957		53.6	75	1.64G	0	999
PE5SC1004	Short Female	0	0	0	0		57	75	1.8G	0	999
PE5SC1005	Short Male	0	0	0	0		57	75	1.8G	0	999
PE5TR1004	Load Female					Fixed	0	75	1.13G	0	999
PE5TR1005	Load Male					Fixed	0	75	1.13G	0	999
PE5SC3005	Through						-124	75	1.13G	0	999

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

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75 Ohm F General Purpose Calibration Kit Including Short Circuit, Open Circuit, Load and Thru Components Operating From DC to 3 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm F General Purpose Calibration Kit Including Short Circuit, Open Circuit, Load and Thru Components Operating From DC to 3 GHz PE5CK1002

URL: https://www.pasternack.com/75ohm-f-open-short-load-3-ghz-pe5ck1002-p.aspx