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75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories

TECHNICAL DATA SHEET PE70MP5000

This 75 Ohm test kit includes all of the components needed to calibrate a Type N VNA for 75 Ohm Type F measurements to 3 GHz. The kit includes a Type F SOLT calibration kit, Armored N to F VNA test cables and a set of additional 75 Ohm accessories. Included in the kit are a set of Type N impedance matching pads that allow a 50 ohm system to make 75 ohm measurements. The 75 Ohm Type N to F armored test cables have excellent performance up to 3 GHz with a maximum VSWR of 1.16:1. All of these items are conveniently packed in a sturdy box keeping all of your 75 GHz test components in a neat, safe and organized package. This 75 Ohm type F calibration kit is in-stock and ready to ship same day.

Features

- Complete set of 3 GHz Type F Test Components
- 75 Ohm SOLT Type F Cal Kit
- Type N Matching Pads, 50 to 75 Ohm
- 75 Ohm Armored Test Cables Type N to Type F
- Additional Type F Loads
- Additional Type F Adapters

Applications

- 75 Ohm VNA Testing
- CATV system Testing
- 75 Ohm Research and Development Testing

Configuration

Impedance	75 Ohms
Frequency Range	DC to 3 GHz

75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories				
Kit Components	Part Number		Description	QTY
75 Ohm Cal Kit	PE5CK1002		75 Ohm F General Purpose Calibration Kit Including Short Circuit, Open Circuit, Load and Thru Components Operating From DC to 3 GHz	1
		PE5SC2004	Female Open	1
		PE5SC2005	Male Open	1
		PE5SC1004	Female Short	1
		PE5SC1005	Male Short	1
		PE5SC3005	Thru Adapter Female to Female	1
		PE5TR1004	Female Load	1
		PE5TR1005	Male Load	1
Test Cables	PE3CA1031-60CM		75 Ohm N Male to 75 Ohm F Male Cable 60 cm Length Using 75 Ohm Armored Test Coax, ROHS	2
Impedance Matching Pads	PE70MP1003		50 Ohm N Male to 75 Ohm N Female Matching Pad Operating From .009 MHz to 3 GHz RoHS Compliant	2
Loads/Terminators	PE6TR1015		2 Watt RF Load Up to 3 GHz with 75 Ohm F Male Input	2
Adapters	PE91348		Precision 75 Ohm F Male to F Male Adapter	2
	PE91349		Precision 75 Ohm F Female to F Female Adapter	2

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories PE70MP5000

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PE5CK1002 F General Purpose Calibration Kit Including Short Circuit, Open Circuit, Load and Thru Components Operating From DC to 3 GHz



Model

ITEM	FREQUENCY RANGE	CONNECTOR	IMPEDANCE
PE5SC2004	DC - 3000 MHz	Female	75 Ohm
PE5SC2005	DC - 3000 MHz	Male	75 Ohm
PE5SC1004	DC - 3000 MHz	Female	75 Ohm
PE5SC1005	DC - 3000 MHz	Male	75 Ohm
PE5TR1004	DC - 3000 MHz	Female	75 Ohm
PE5TR1005	DC - 3000 MHz	Male	75 Ohm
PE5SC3005	DC - 3000 MHz	Female	75 Ohm

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TECHNICAL DATA SHEET PE70MP5000

PE5SC2004 F Female General Purpose Calibration Kit Component Open Circuit Operating From DC to 3 GHz



Electrical Specifications

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

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type-Female	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.63 (ø) x 1.40 (L)	Inch
Net Weight	35	g

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TECHNICAL DATA SHEET PE70MP5000

PE5SC2005 F Male General Purpose Calibration Kit Component Open Circuit Operating From DC to 3 GHz



Electrical Specifications

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

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type-Male	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.63 (ø) x 1.62 (L)	Inch
Net Weight	45.2	g

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TECHNICAL DATA SHEET PE70MP5000

PE5SC1004 F Female General Purpose Calibration Kit Component Short Circuit Operating From DC to 3 GHz



Electrical Specifications

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

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type-Female	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.63 (ø) x 1.40 (L)	Inch
Net Weight	36.6	g

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PE5SC1005 F Male General Purpose Calibration Kit Component Short Circuit Operating From DC to 3 GHz



Electrical Specifications

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

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type-Male	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.63 (ø) x 1.62 (L)	Inch
Net Weight	47	g

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75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories

TECHNICAL DATA SHEET PE70MP5000

PE5SC3005 F General Purpose Calibration Kit Component Thru Operating From DC to 3 GHz



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 (1000 - 3000 MHz)	30	35		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm Double-Sided F Type-Female	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.62 (ø) x 1.40 (L)	Inch
Net Weight	21.2	g

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TECHNICAL DATA SHEET PE70MP5000

PE5TR1004 F Female General Purpose Calibration Kit Component Precision Load Operating From DC to 3 GHz



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 (1000 - 3000 MHz)	36	38		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type-Female	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.70 (ø) x 1.53 (L)	Inch
Net Weight	45.8	g

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TECHNICAL DATA SHEET PE70MP5000

PE5TR1005 F Male General Purpose Calibration Kit Component Precision Load Operating From DC to 3 GHz



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 (1000 - 3000 MHz)	36	38		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm F Type-Male	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.70 (ø) x 1.76 (L)	Inch
Net Weight	54.6	g

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TECHNICAL DATA SHEET PE70MP5000

PE3CA1031 N Male to F Male Cable Using Armored Test Coax, RoHS



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC - 3000			MHz
Impedance	75			Ohm
Insertion Loss (DC to 3000 MHz)			0.5	dB
Return Loss (DC - 1000 MHz)	25	35		dB
Return Loss (1000 - 2000 MHz)	25	30		dB
Return Loss (2000 - 3000 MHz)	23	28		dB

Mechanical Specifications

Item	Description	Units
Connector	75 Ohm N Type Male to F Type Male	
Inner Conductor Material and Plating	N Type: Brass, Gold F Type: Beryllium Copper, Gold	
Body Material and Plating	Brass, Gold	
Length	60	CM
Net Weight	145	g

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TECHNICAL DATA SHEET PE70MP5000

PE70MP1003 50 Ohm N Male to 75 Ohm N Female Matching Pad



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		50 - 75		Ohm
Insertion Loss (DC - 2000 MHz)		5.5	6	dB
Insertion Loss (2000 - 3000 MHz)		5.5	6.3	dB
Return Loss (DC - 2000 MHz)	25	30		dB
Return Loss (2000 - 3000 MHz)	23	27		dB
Flatness (DC - 2000 MHz)			0.5	dB
Flatness (2000 - 3000 MHz)			0.8	dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	50 Ohm N Type-Male 75 Ohm N Type-Female	
Dimensions	0.80 (ø) x 2.9 (L)	Inch
Net Weight	77.5	g

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TECHNICAL DATA SHEET PE70MP5000

PE6TR1015 2 Watt RF Load Up to 3 GHz with 75 Ohm F Male Input



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC - 3000			MHz
Impedance	75			Ohm
Return Loss (DC - 1000 MHz)	35	40		dB
Return Loss (1000 - 2000 MHz)	30	35		dB
Return Loss (2000 - 3000 MHz)	25	30		dB

Mechanical Specifications

Item	Description	Units
Housing	Copper Tube	
Connector	75 Ohm, Male F Type	
Connector Screw Thread	3/8 - 32 UNEF	Inch
Dimensions	0.60 (ø) x 1.37 (L)	Inch
Net Weight	32.5	g

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TECHNICAL DATA SHEET PE70MP5000

PE91348 Precision 75 Ohm F Male to F Male Adapter



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC - 3000			MHz
Impedance	75			Ohm
Insertion Loss (DC - 3000 MHz)		0.1	0.3	dB
Return Loss (DC - 1000 MHz)	30	35		dB
Return Loss (1000 - 2000 MHz)	25	30		dB
Return Loss (2000 - 3000 MHz)	22	30		dB

Mechanical Specifications

Item	Description	Units
Connector	75 Ohm Double-Sided F Type-Male	
Contact Material and Plating	Brass, Nickel	
Connector Material and Plating	Brass, Gold	
Dimensions	0.50 (ø) x 1.34 (L)	Inch
Net Weight	14	g

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TECHNICAL DATA SHEET PE70MP5000

PE91349 Precision 75 Ohm F Female to F Female Adapter



Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range		DC - 3000		MHz
Impedance		75		Ohm
Insertion Loss (DC - 3000 MHz)		0.2	0.5	dB
Return Loss (DC - 3000 MHz)	18	20		dB

Mechanical Specifications

Item	Description	Units
Connector	75 Ohm Double-Sided F Type-Female	
Contact Material and Plating	Brass, Nickel	
Connector Material and Plating	Beryllium Copper, Gold	
Dimensions	0.50 (ø) x 1.02 (L)	Inch
Net Weight	6.5	g

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TECHNICAL DATA SHEET PE70MP5000

General Instructions and Usage Notes

#	Notes
1	After use please place protective covers on both connectors and put back in kit box.
2	Keep connectors clean, and avoid touching the connectors.
3	Do not insert male pins with a diameter greater than **0.86 mm,** this will damage the female pin.
4	When Mating with RG6 Coax, please use a connector saver to prevent damage on the F Female terminations.
5	Do not insert male pins that protrude more than 1mm over the outer flat of the connector, this will damage the female connector.
6	When mating male and female connectors, rotate the hex only on the male connector (keep the male body in a fixed position) slowly to screw on the female connector thread (keep female body in a fixed position).
7	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.
8	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.**
9	Torque the F Type male connectors to 15 in-lbs.
10	Use at room temperature.

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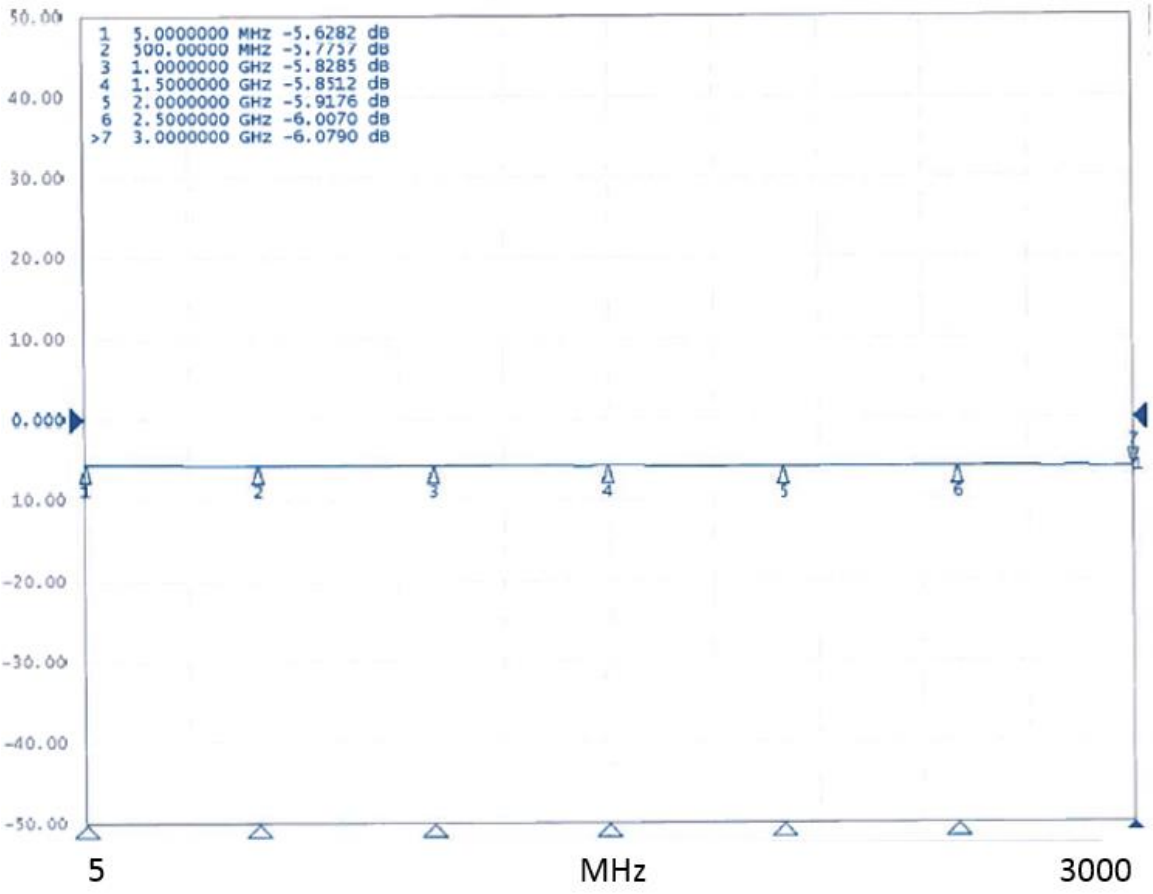


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TECHNICAL DATA SHEET PE70MP5000

Typical Performance Data

PE70MP1003 50 Ohm to 75 Ohm Insertion Loss
Span: 3000 MHz



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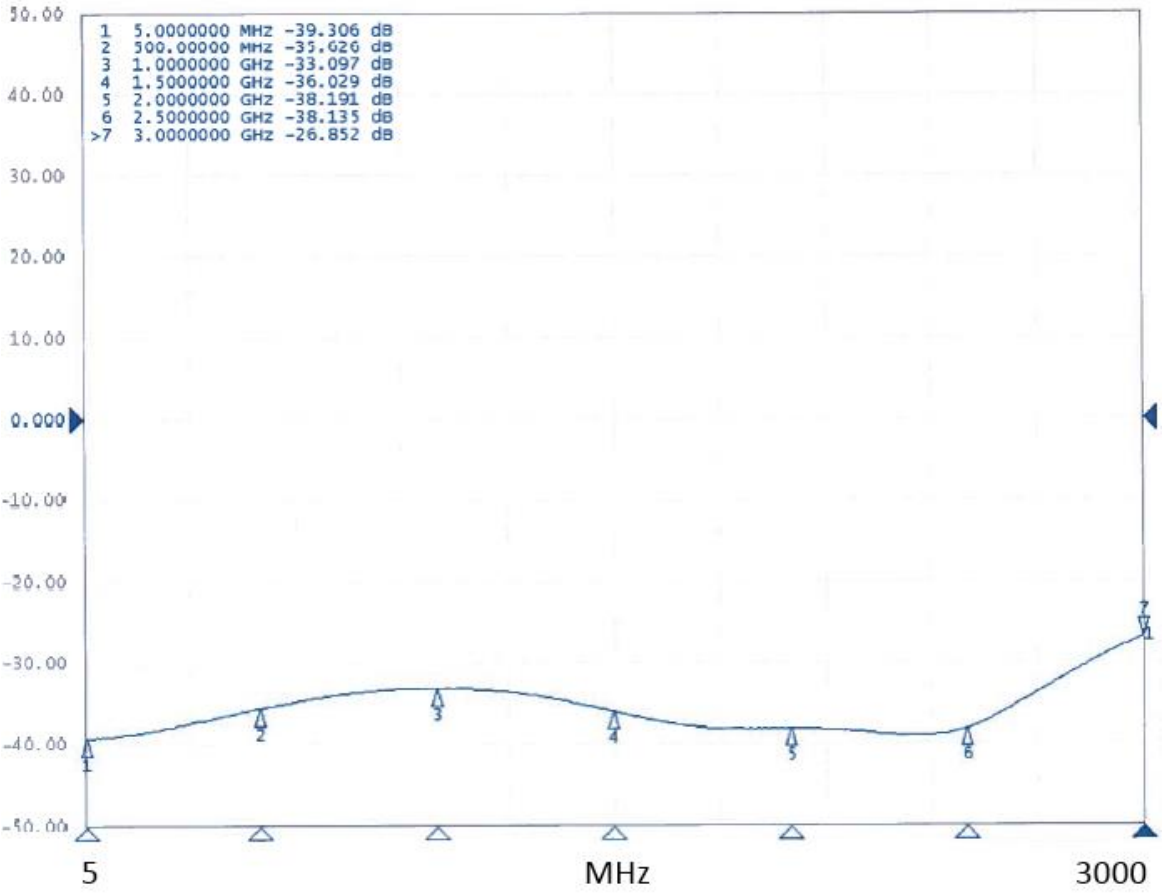
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TECHNICAL DATA SHEET PE70MP5000

PE70MP1003 50 Ohm Port Return Loss
Span: 3000 MHz



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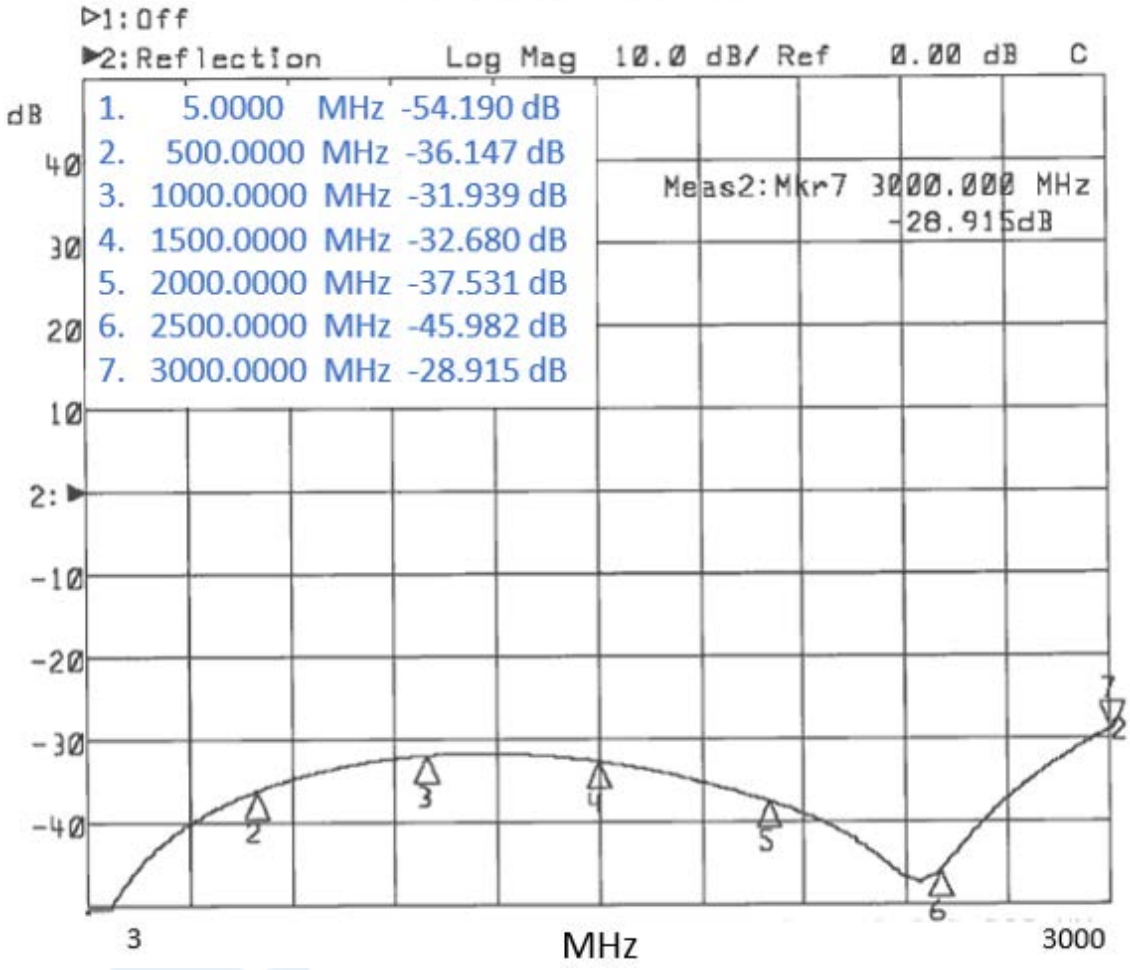
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TECHNICAL DATA SHEET PE70MP5000

PE70MP1003 75 Ohm Port Return Loss Span: 3000 MHz



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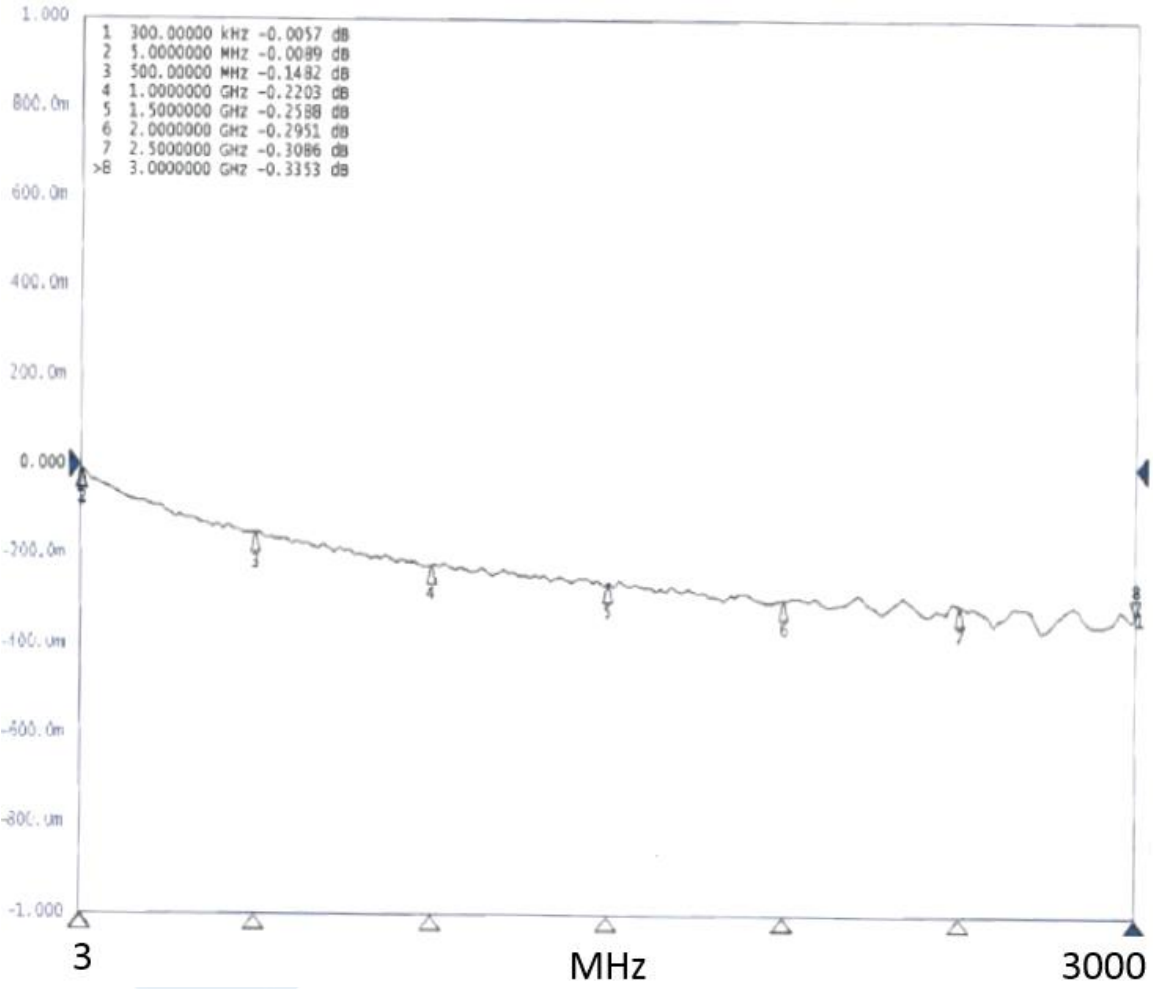
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75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories

TECHNICAL DATA SHEET PE70MP5000

PE3CA1031-60CM Insertion Loss
Span: 3000 MHz



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories PE70MP5000

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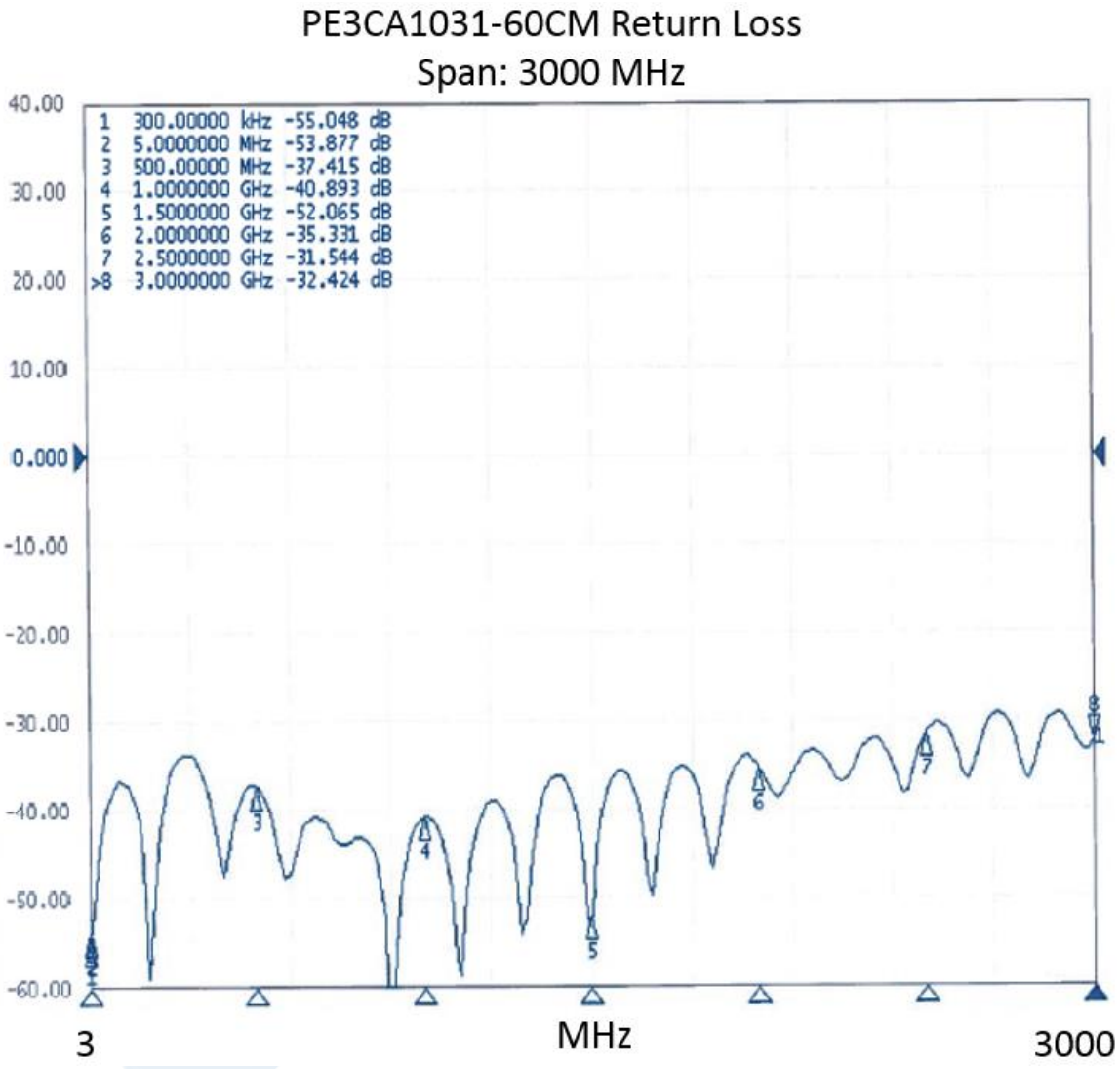
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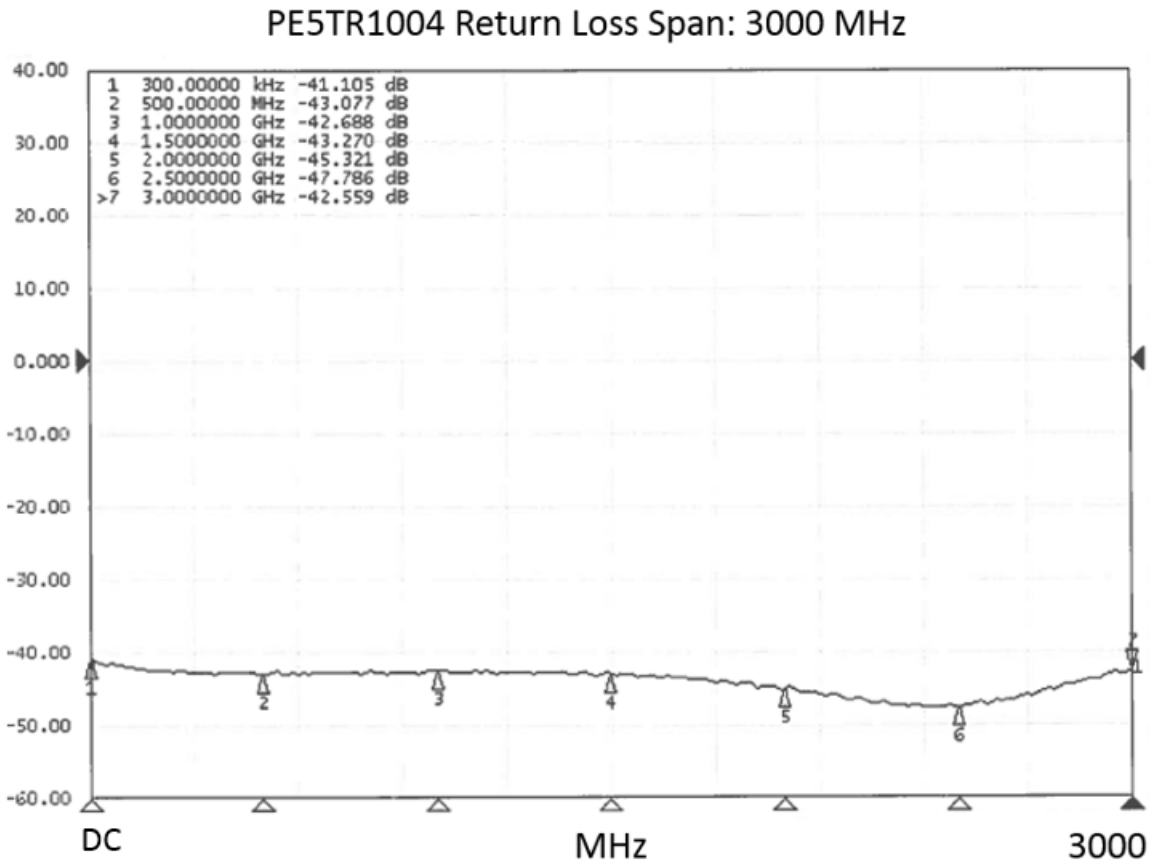
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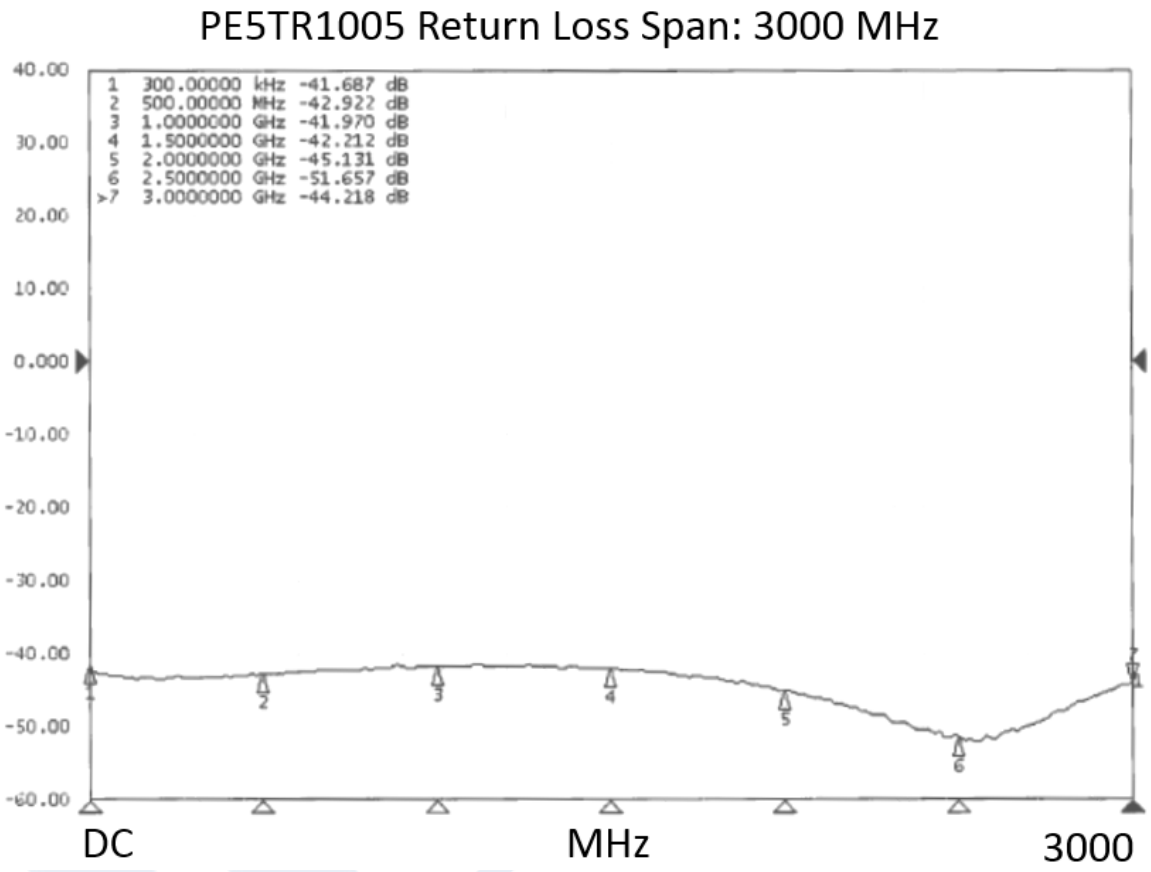
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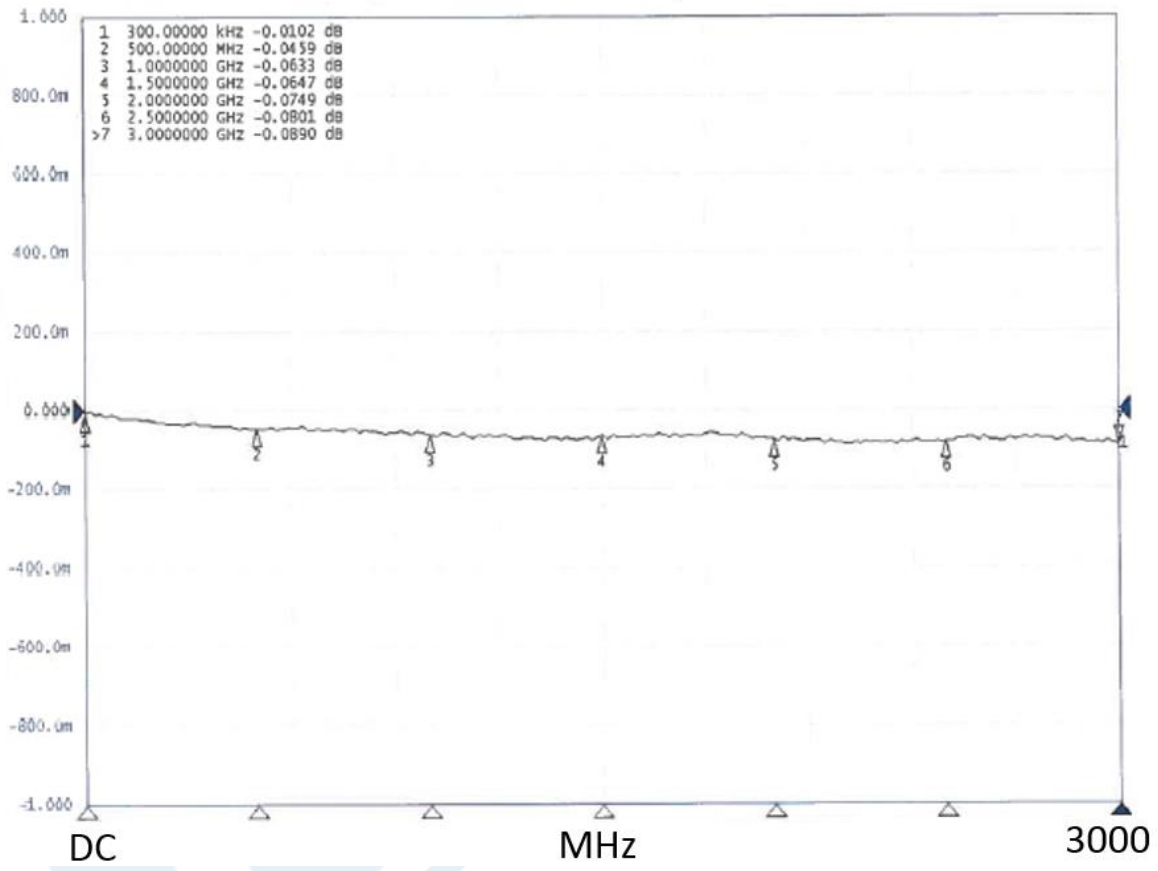
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75 Ohm Type F Test and Measurement Kit with SOLT Calibration Components, N Male to F Male Armored Test Cables and Precision Accessories

TECHNICAL DATA SHEET PE70MP5000

PE5SC3005 Insertion Loss Span: 3000 MHz



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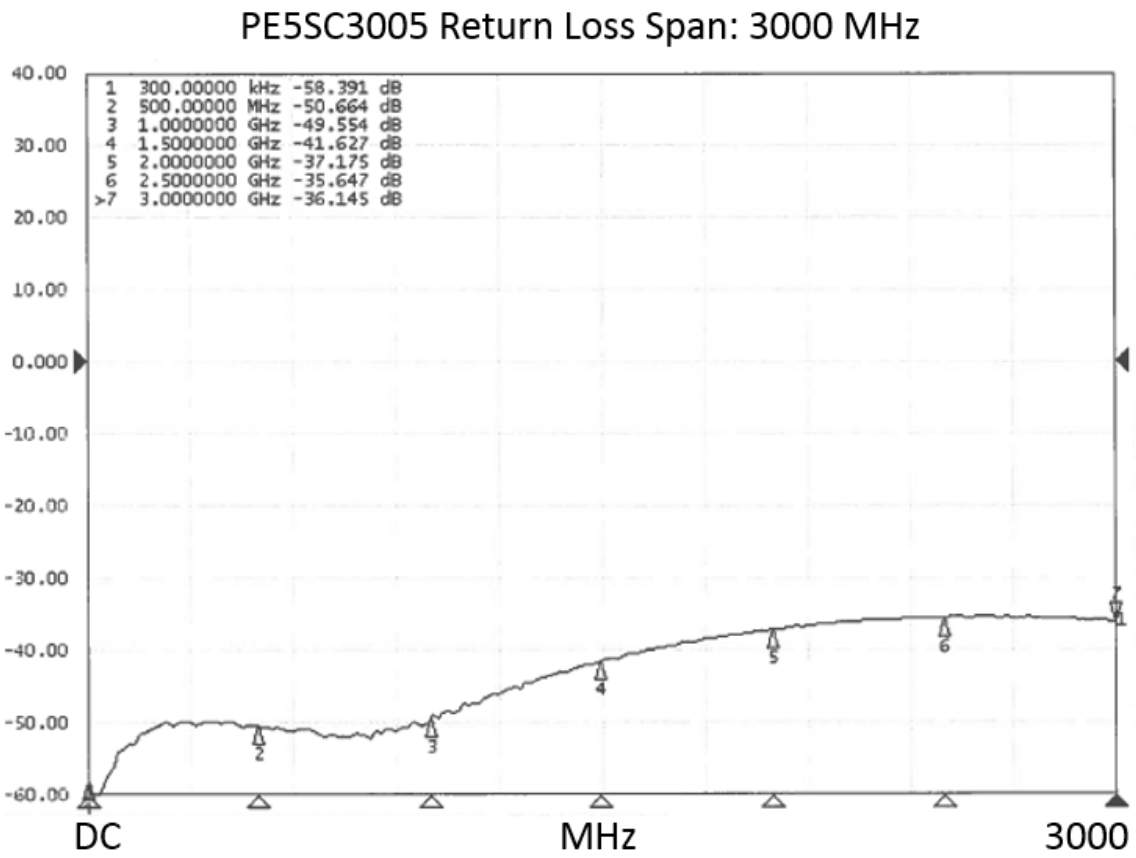
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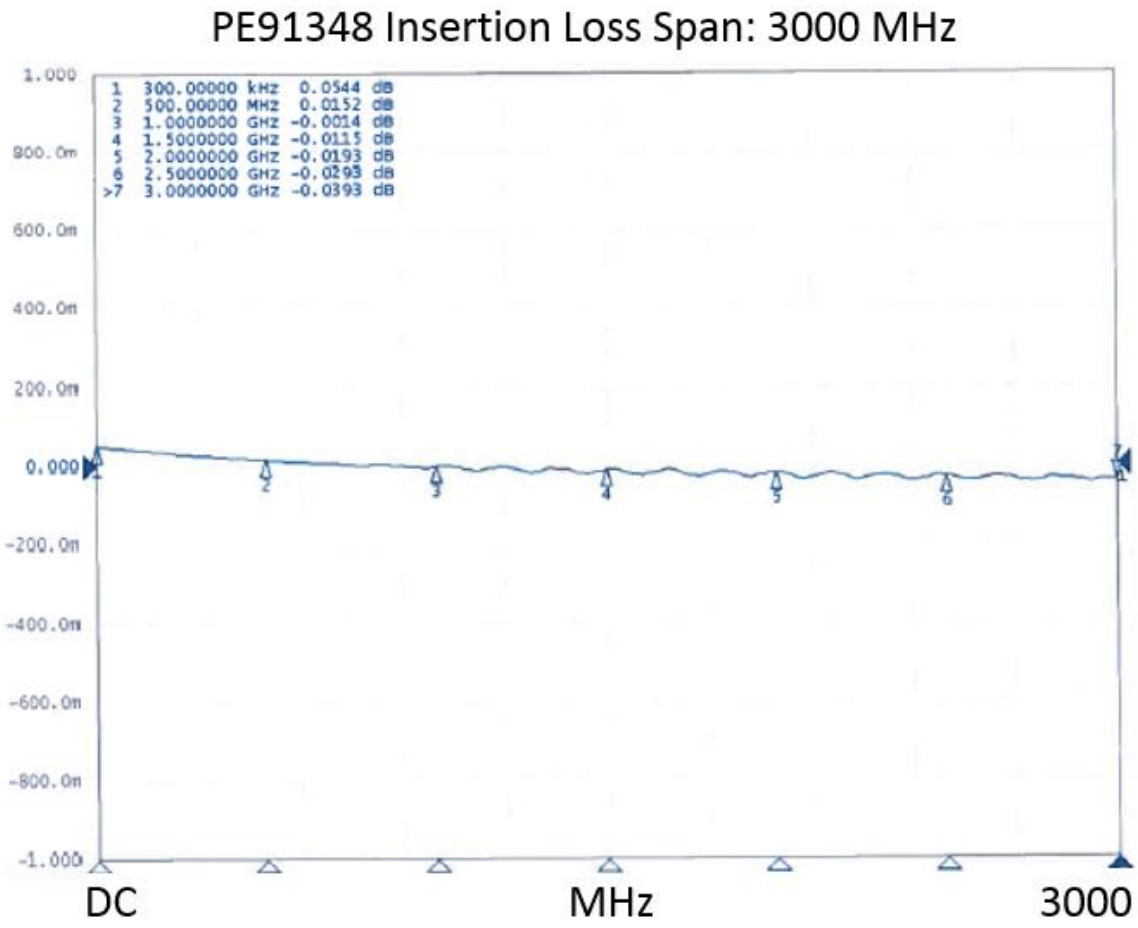
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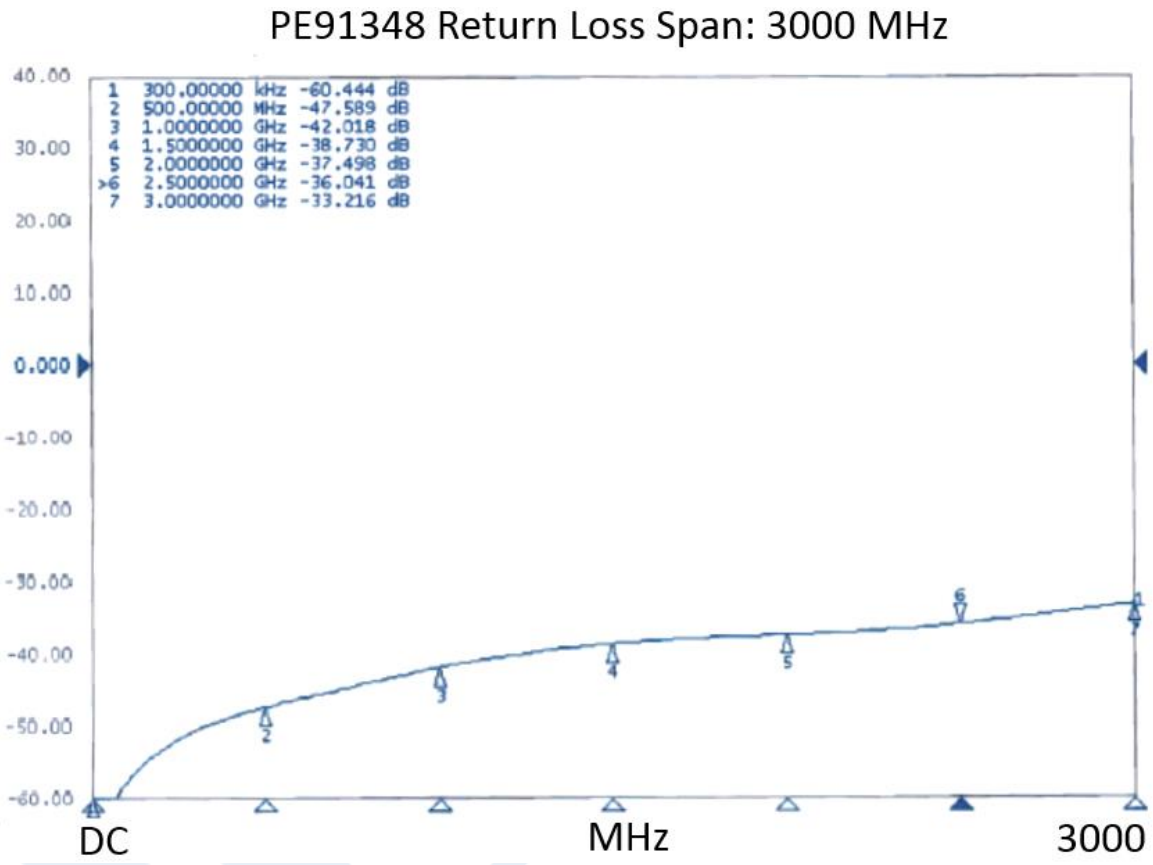
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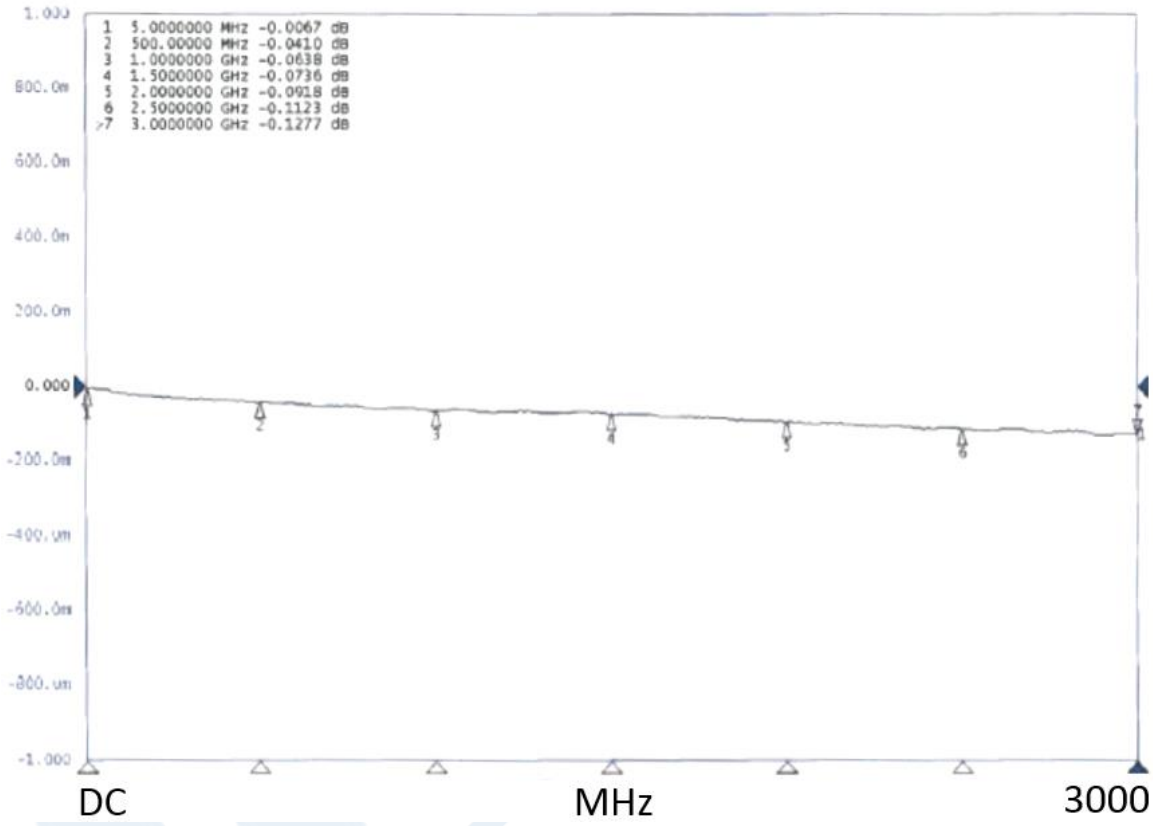
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TECHNICAL DATA SHEET PE70MP5000

PE91349 Insertion Loss Span: 3000 MHz



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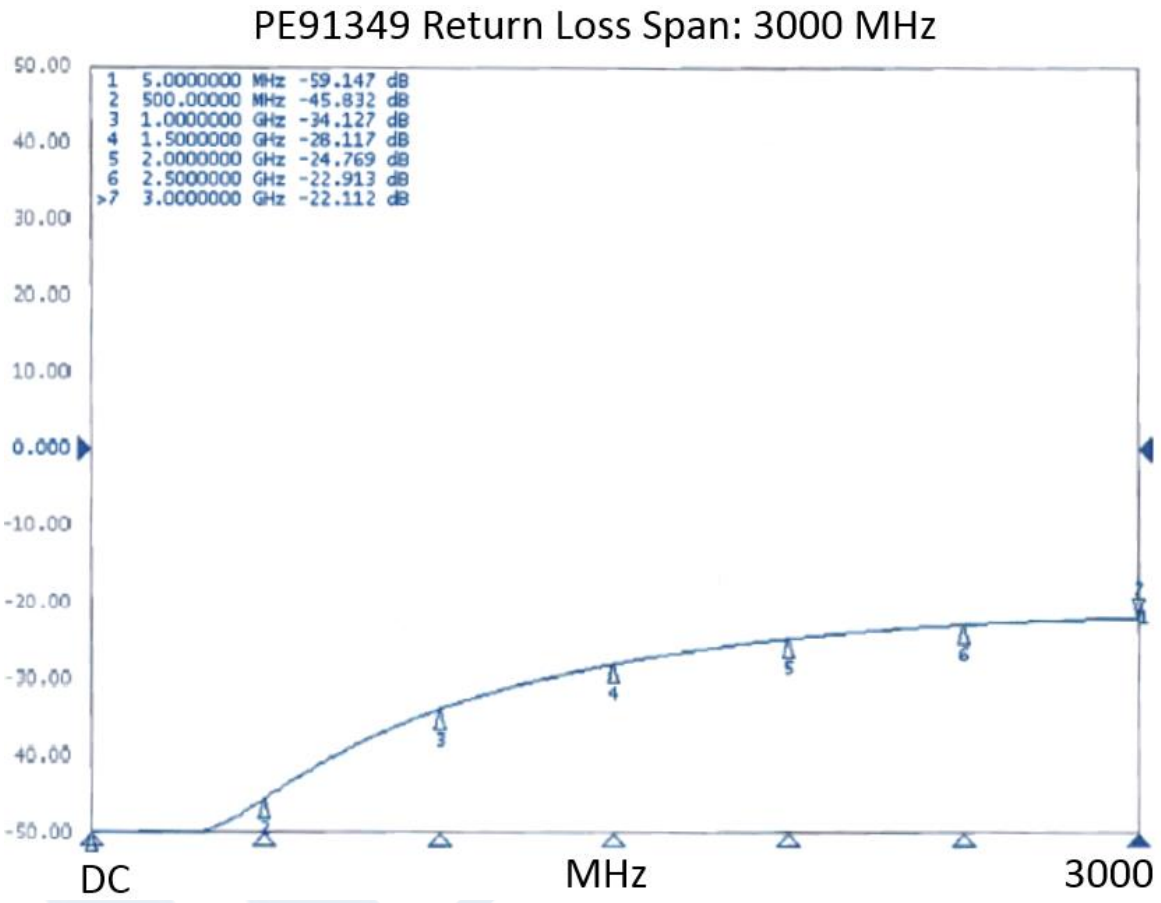
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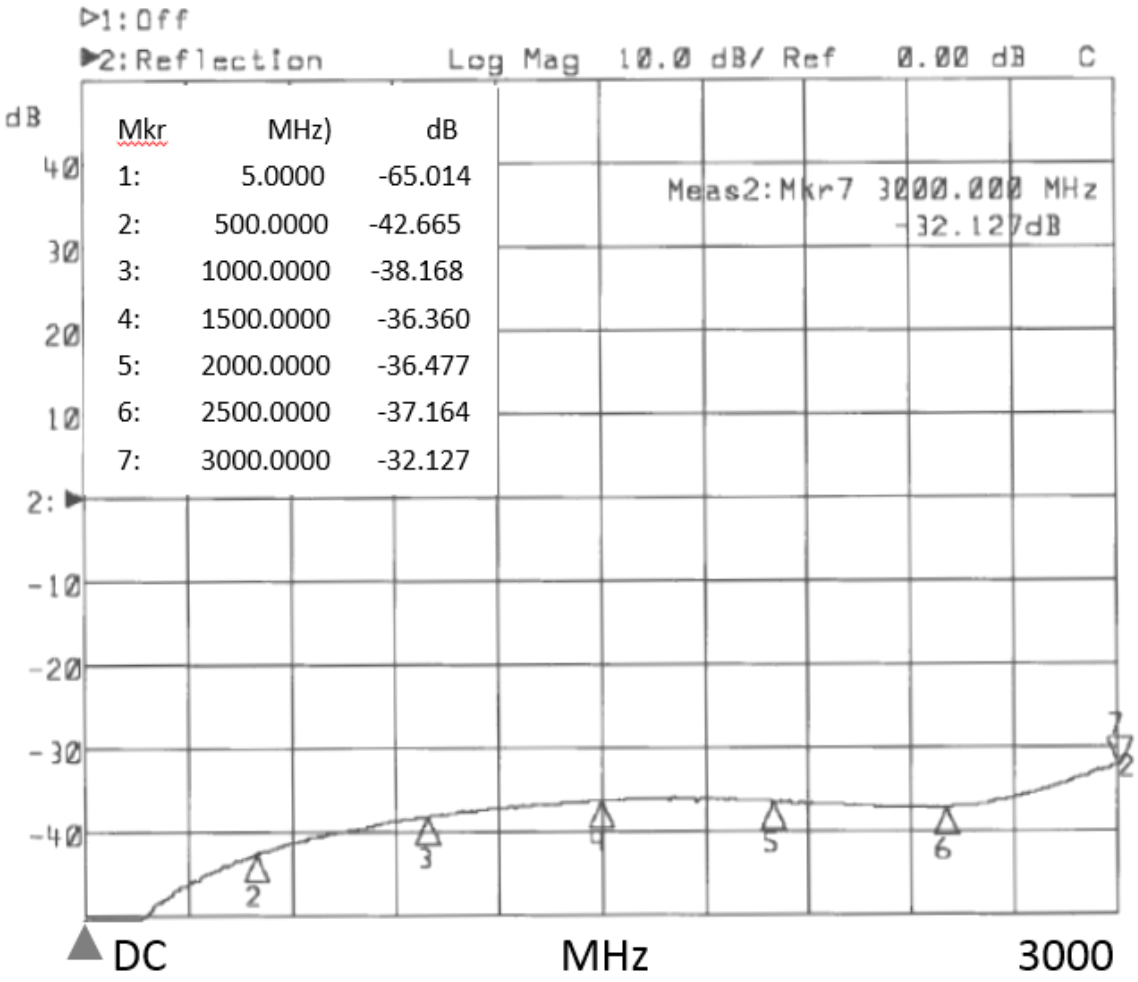
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PE6TR1015 Return Loss Span: 3000 MHz



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

RoHS Compliant
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

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URL: http://www.pasternack.com/75ohm-f-open-short-load-3-ghz-pe70mp5000-p.aspx

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