

2.92mm (K) Connector Fixed Termination Calibration Kits For Tektronix TDR and Electrical Sampling Modules

Features

- ▶ 2.92mm (K) Connectors
- ▶ DC to 40 GHz
- ▶ Fixed Load Calibration

Description

These 2.92mm (K) connector calibration kits are designed for use with Tektronix TDR and Electrical Sampling Modules equipped with 2.92mm (K) connectors from DC to 40 GHz.

Each kit includes a full complement of calibration standards (shorts, opens, and fixed loads) and comes housed in an attractive, foam-lined, wood instrument case.

2.92mm (K) Connector Description

These precision miniature 2.92mm air line interface connectors operate mode free to 40 GHz. They are fully compliant with IEEE standard 287 (GPC 2.92) and are fully mateable with SMA and 3.5mm connectors. Introduced by Maury in 1974 as the MPC3 connector, the design was reintroduced as the K connector by Wiltron in 1984. For interface specifications please refer to Maury data sheet 5E-063.

Recommended Accessories

A048A	Digital connector gage kit (thread-on type)
7821C	1.85mm Female to Male Connector Saver
7843S3.00	1.85mm Female to Male Beadless Air Line*

* Note: Use two (2) 7821C adapters for converting the 7843S3.00 Beadless Air Line to a Bead Supported configuration.

Ordering Options

MODEL	ADAPTER SET	SET CONTENTS
8770K	NONE	NONE
7850TK30	8770Z4	See Page 2

Note: 2.92mm (K) and 3.5mm connectors are fully mateable. Resulting junctions are calibrated out and are not critical.



Components Included in 8770TK Kits

QUANTITY	DESCRIPTION	MODEL
1	2.92mm (K) female fixed offset short	8771F1
1	2.92mm (K) male fixed offset short	8772F1
1	2.92mm (K) female open	8773A1
1	2.92mm (K) male open	8773B1
1	2.92mm (K) female fixed termination	8775A2
1	2.92mm (K) male fixed termination	8775B2
1	5/16-inch double end wrench	—
1	7/16-inch double end wrench	—
1	Instrument case	—

Note: Each kit is available with a set of adapters per the Ordering Options (at left).

See Page 2 for component specifications.

Single sex kits are also available.

Please contact our Sales Department for details
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COMPONENT SPECIFICATIONS

The Maury precision 2.92mm (K) components included in these kits have the following specifications:

Fixed Offset Shorts - Models 8771F1 & 8772F1

Frequency Range DC to 40.0 GHz
 Minimum Reflection Coefficient 0.98
 Offset Length 0.197 in. (0.500cm)
 Phase Accuracy ±4.0 degrees
 Nominal Impedance 50 ohm

Open Circuits - Models 7848A10/B10

Frequency Range DC to 40.0 GHz
 Minimum Reflection Coefficient 0.98
 Phase Accuracy ±1.5 degrees
 Nominal Impedance 50 ohm

Fixed Terminations - Models 8775A2 & 8775B2

Frequency Range DC to 40.0 GHz
 Maximum VSWR:
 DC to 4.0 GHz 1.016
 4.0 to 40.0 GHz 1.120
 Power Handling 0.5 watt CW, 0.25 kW peak
 Nominal Impedance 50 ohm

Beadless Air Line - Models 8774C7.5

Frequency Range DC to 40.0 GHz
 Electrical Length 7.495cm
 Electrical Length Accuracy ±0.0025cm
 Minimum Return Loss
 (excluding connector interface) 48 dB
 Nominal Impedance 50 ohm

ADAPTERS & ADAPTER SET OPTIONS – Adapter Set (8770Z4)

Precision 2.92mm (K) Adapters

Models 8714A/B/C

Frequency Range DC to 40.0 GHz
 Maximum VSWR:
 DC to 4.0 GHz 1.05
 4.0 to 20.0 GHz 1.08
 20.0 to 40.0 GHz 1.12
 Nominal Impedance 50 ohm

Adapters Included in 8770Z4 Sets

TEST PORT ADAPTER OPTION	QUANTITY	DESCRIPTION	MODEL
1	1	2.92mm (K) female to 2.92mm (K) female	8714A2
2	1	2.92mm (K) male to 2.92mm (K) male	8714B2
	1	2.92mm (K) female to 2.92mm (K) male	8714C2