

Keysight Technologies
83059A/B/C/K
Precision 3.5 mm Coaxial
Adapters (dc - 26.5 GHz)

Operating Note

Notices

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Safety Information

CAUTION







A CAUTION notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood and met.

WARNING

A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

Safety Symbols

The following symbols on the instrument and in the documentation indicate precautions which must be taken to maintain safe operation of the instrument.

	When you see this symbol on your instrument, you should refer to the instrument's instruction manual for important information.		This symbol indicates hazardous voltages.
	This symbol indicates that the power line switch is OFF.		This symbol indicates that the instrument requires alternating current (ac) input.
	This symbol indicates that the power line switch is ON.		This symbol indicates that the power line switch is OFF or in STANDBY position.

Safety Considerations

Read the information below before using this instrument.

The following general safety precautions must be observed during all phases of operation, service, and repair of this instrument. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards for design, manufacture, and intended use of the instrument. Keysight Technologies assumes no liability for the customer's failure to comply with these requirements.

WARNING

SAFETY EARTH GROUND




This is a Safety Class I product (provided with a protective earthing terminal). An uninterruptible safety earth ground must be provided from the main power source to the product input wiring terminals, power cord, or supplied power cord set. Whenever it is likely that the protection has been impaired, the product must be made inoperative and secured against any unintended operation.

CAUTION

BEFORE APPLYING POWER

Verify that the product is configured to match the available main power source as described in the input power configuration instructions in this manual. If this product is to be powered by autotransformer, make sure the common terminal is connected to the neutral (grounded) side of the ac power supply.

Regulatory Markings

	The CE mark is a registered trademark of the European Community. This CE mark shows that the product complies with all the relevant European Legal Directives.		The CSA mark is a registered trademark of the Canadian Standards Association.
ISM 1-A	This text indicates that the instrument is an Industrial Scientific and Medical Group 1 Class A product (CISPER 11, Clause 4).		The CSA mark is a registered trademark of the Canadian Standards Association.

Waste Electrical and Electronic Equipment (WEEE) Directive

This instrument complies with the WEEE Directive marking requirement. This affixed product label indicates that you must not discard this electrical or electronic product in domestic household waste.

Product category:

With reference to the equipment types in the WEEE directive Annex 1, this instrument is classified as a “Monitoring and Control Instrument” product.

The affixed product label is as shown below.



Do not dispose in domestic household waste.

To return this unwanted instrument, contact your nearest Keysight Service Center, or visit <http://about.keysight.com/en/companyinfo/environment/takeback.shtml> for more information.

Sales and Technical Support

To contact Keysight for sales and technical support, refer to the support links on the following Keysight websites:

- www.keysight.com/find/adapters
(product-specific information and support, software and documentation updates)
- www.keysight.com/find/assist
(worldwide contact information for repair and service)

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Overview

Keysight 83059 precision 3.5 mm coaxial adapters (dc to 26.5 GHz) provide:

- low SWR
- excellent repeatability
- low loss
- precision “Instrument Grade” 3.5 mm coax connectors
- ideal connector savers

Outstanding performance

The Keysight 83059 instrument grade 3.5 mm coaxial adapters offer outstanding performance to 26.5 GHz. With SWR typically better than 1.05, these adapters are ideal for most connector saver and interconnect needs.

Applications

Out-of-specification SMA and poor quality 3.5 mm connectors can cause considerable damage to expensive test port connectors. The 83059 adapters offer test port safety without compromising measurement accuracy.

Use the 83059 adapters to perform adapter swap calibrations when testing non-insertible devices on network analyzers.

For general-purpose test and measurement applications, the 83059 adapters offer far better performance than most instrument grade adapters available today.

The 83059 adapters are available in kits of three, supplied with protective foam in an attractive wood box.

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