

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85033E

The Keysight (Agilent/HP) 85033E is a precision 3.5 mm, 50 Ω coaxial SOLT calibration kit for vector network analyzers. It provides male and female open, short, and fixed load standards and a torque wrench, and is specified from DC to 9 GHz. Optional phase-matched adapters enable accurate calibration of non-insertable devices.

SPECIFICATIONS

General

Interfaces	None (passive mechanical standards)
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Physical

Power Supply	None (no external power required)
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Performance and Kit Definition

Frequency Range	DC - 9 GHz
System Impedance	50 Ω
Connector Interface	3.5 mm precision coax (APC-3.5), sexed
Calibration Method Support	SOLT (Short-Open-Load-Thru); 1-port and 2-port
Included Standards	Open (male), Open (female), Short (male), Short (female), Fixed Load (male), Fixed Load (female)
Port Gender Configuration	Male and female standards included
Reference Plane Definition	Mated connector plane; zero-length thru
Calibration Coefficient Reference Temperature	23 °C

Open Standard (Male) Specifications

Frequency Range (Open Male)	DC - 9 GHz
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Open Standard (Female) Specifications

Frequency Range (Open Female)	DC - 9 GHz
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Short Standard (Male) Specifications

Frequency Range (Short Male)	DC - 9 GHz
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Short Standard (Female) Specifications

Frequency Range (Short Female)	DC - 9 GHz
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Load Standard (Male) Specifications

Frequency Range (Load Male)	DC - 9 GHz
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Load Standard (Female) Specifications

Frequency Range (Load Female)	DC - 9 GHz
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Thru/Adapter Specifications

Thru Type	Zero-length (direct mated male-female connection)
Frequency Range (Thru)	DC - 9 GHz

Connector and Mechanical Interface

Connector Interface Standard	3.5 mm precision (APC-3.5), 50 Ω
Connector Gender Availability	Male and female
Recommended Connector Torque	8 in·lb (0.90 N·m)
Included Torque Wrench	Yes (for 3.5 mm connectors)
Maximum Operating Frequency of Connector	26.5 GHz (3.5 mm connector standard)
Mechanical Compatibility	Mechanically compatible with SMA/APC-3.5 interfaces

Compatibility and Analyzer Support

Supported Analyzer Platforms	Agilent/Keysight network analyzers
Supported Calibration Workflows	1-port SOLT; full 2-port SOLT
Required Cal Kit Definition ID	85033E (where available in analyzer firmware)

Physical Characteristics and Accessories

Kit Contents Summary	Six 3.5 mm standards (male/female opens, shorts, loads) and a torque wrench
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TECHNOLOGY

3.5 mm 50 Ω coaxial SOLT calibration standards

APPLICATIONS

Calibration of Agilent/Keysight vector network analyzers (1-port and 2-port SOLT) from DC to 9 GHz; accurate measurements of insertable and, with options, non-insertable devices.

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.