

KEYSIGHT TECHNOLOGIES (AGILENT HP)

85052D

The Keysight (Agilent) 85052D is a 3.5 mm economy mechanical calibration kit designed to characterize systematic errors of network analyzers. Operating from DC up to 26.5 GHz, the kit contains precision opens, shorts, and broadband loads for both male and female interfaces, alongside phase-matched adapters, standard definitions on disk, and a precision torque wrench.

SPECIFICATIONS

General Specifications

Nominal Impedance	50 Ω
Frequency Range	DC to 26.5 GHz
Minimum Frequency	0 Hz (DC)
Maximum Frequency	26.5 GHz
Calibration Kit Category	Economy
Kit Configuration Type	Mechanical

Kit Contents and Standards

Male Open Standard	85052-60007 (3.5 mm male)
Female Open Standard	85052-60008 (3.5 mm female)
Male Short Standard	85052-60009 (3.5 mm male)
Female Short Standard	85052-60010 (3.5 mm female)
Torque Wrench Size	5/16 in
Torque Wrench Setting	90 N-cm (8 in-lb)

Broadband Load Electrical Specifications

Load Frequency Range	DC to 26.5 GHz
Load Return Loss (3 to 8 GHz)	≥ 38 dB (reflection coefficient ≤ 0.01259)
Load Return Loss (8 to 20 GHz)	≥ 36 dB (reflection coefficient ≤ 0.01585)
Load Return Loss (20 to 26.5 GHz)	≥ 30 dB (reflection coefficient ≤ 0.03162)

Adapter Electrical Specifications

Adapter Frequency Range	DC to 26.5 GHz
-------------------------	----------------

Environmental Specifications

Calibration Temperature Range	+20 to +26 $^{\circ}\text{C}$
Storage Temperature Range	-40 to +75 $^{\circ}\text{C}$
Relative Humidity Limits	Non-condensing

Calibration, Metrology & Compatibility

Calibration Interval (Recommended)	12 months
Supported Network Analyzers	Keysight / Agilent VNAs (including PNA, ENA, 8753, 8720 series)

Component Part Numbers

Male Open Part Number	85052-60010
Female Open Part Number	85052-60009
Male Short Part Number	85052-60012
Female Short Part Number	85052-60011
Male Broadband Load Part Number	85052-60014
Female Broadband Load Part Number	85052-60013
Torque Wrench Part Number	8710-1765

Environmental

Operating Altitude	< 4,500 meters (< 15,000 feet)
Storage Altitude	< 15,000 meters (< 50,000 feet)

TECHNOLOGY

Coaxial RF & Microwave Calibration

APPLICATIONS

Vector Network Analyzer (VNA) Calibration

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