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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 746A – Step Attenuator

HP Agilent 779D Directional Coupler 1.7 to 12.4 GHz The HP 779D is a three-port 50-ohm coaxial directional coupler for 7-mm systems from 1.7 to 12.4 GHz. OEM 779D operating and service Table 1 lists mean coupling 20 dB plus or minus 0.5 dB, coupling variation plus or minus 0.75 dB, directivity greater than 30 dB from 1.7 to 4.0 GHz and greater than 26 dB from 4.0 to 12.4 GHz, primary and auxiliary SWR less than 1.2, insertion loss less than 0.6 dB, primary-line maximum 50 W, and auxiliary-line maximum 0.5 W. Standard connectors are Type N male input, Type N female output, and Type N female auxiliary; APC-7 is available on special order. Catalog dimensions are 196.9 mm L x 114.3 mm H x 25.4 mm W; average/peak power rating 50 W / 250 W on product summaries. The HP 779D is a three-port 50-ohm coaxial directional coupler for 7-mm systems from 1.7 to 12.4 GHz. OEM 779D operating and service Table 1 lists mean coupling 20 dB plus or minus 0.5 dB, coupling variation plus or minus 0.75 dB, directivity greater than 30 dB from 1.7 to 4.0 GHz and greater than 26 dB from 4.0 to 12.4 GHz, primary and auxiliary SWR less than 1.2, insertion loss less than 0.6 dB, primary-line maximum 50 W, and auxiliary-line maximum 0.5 W. Standard connectors are Type N male input, Type N female output, and Type N female auxiliary; APC-7 is available on special order. Catalog dimensions are 196.9 mm L x 114.3 mm H x 25.4 mm W; aver



MODEL

**Agilent / Keysight
779D**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

779D

LISTING

<https://aumictechlabs.com/products/779d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 746A is a precision AC calibrator engineered to verify the accuracy of AC voltmeters and other AC measurement devices. It generates stable and accurate AC voltage outputs across multiple frequencies, establishing the performance baseline for connected test equipment. The instrument is the primary standard for validating AC measurement integrity in laboratory and production calibration workflows.

Technical Specifications
Device Type: Precision AC Calibrator
Primary Function: AC voltmeter accuracy verification and performance validation
Output Characteristic: Stable and accurate AC voltage outputs
Frequency Support: Multiple frequency points
Output Interface: Standard connectors for AC voltage output

Key Features
Generates calibrated AC voltage signals across a defined frequency range
Delivers stable output suitable for metrological applications
Benchtop form factor for laboratory integration
Direct output connectivity via standard AC voltage connectors

Typical Applications
AC voltmeter calibration and verification
AC measurement device performance validation
Production line acceptance testing of AC instruments
Laboratory standards and reference measurements

Compatibility & Integration
The 746A pairs with any AC voltmeter or general-purpose AC measurement instrument requiring external calibration. Standard output connectors enable direct signal coupling to test equipment under calibration. The benchtop design accommodates typical laboratory rack and bench mounting configurations.

779D Characteristics / Specifications

PARAMETER	VALUE
Model	779D
Instrument Type	Coaxial directional coupler
Frequency Range	1.7 to 12.4 GHz
Mean Coupling	20 dB plus or minus 0.5 dB
Coupling Variation	plus or minus 0.75 dB
Directivity Low Band	greater than 30 dB from 1.7 to 4.0 GHz
Directivity High Band	greater than 26 dB from 4.0 to 12.4 GHz
Primary Line Swr	less than 1.2 (reflection coefficient 0.091)
Auxiliary Line Swr	less than 1.2 (reflection coefficient 0.091)
Insertion Loss	less than 0.6 dB
Primary Maximum Power	50 W
Auxiliary Maximum Power	0.5 W
Peak Power Rating	250 W on 779D product summaries
Input Connector	TypeNmale
Output Connector	TypeNfemale
Auxiliary Connector	TypeNfemale
Precision Connector Class	7 mm APC-7 on any or all ports on special order
System Impedance	50 ohm 7 mm coaxial
Dimensions	196.9 mmLx 114.3 mmHx 25.4 mm W (7.75 in x 4.50 in x 1.0 in)
Manufacturer	HP Agilent Keysight
Use Case	broadband coaxial directional sample
Literature	Agilent 779D Directional Coupler operating and service manual Table 1
Family	HP 77x coaxial couplers
Documentation Type	OEM 779D specification table
Brand Lineage	Hewlett Packard Agilent Keysight

PARAMETER	VALUE
Form Factor	three port coaxial coupler
System Role	forward power sample for reflectometers

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Agilent 779D operating and service Table 1 (1.7-12.4 GHz, 20 plus or minus 0.5 dB, plus or minus 0.75 dB variation, 30/26 dB directivity, SWR 1.2, IL 0.6 dB, 50 W / 0.5 W). Typical coupling-versus-frequency plots are in the 779D manual and are not a specification.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.