

KEYSIGHT TECHNOLOGIES (AGILENT HP)

778D

The Keysight Agilent HP 778D is a high-performance, economical dual-directional coupler designed for swept measurements in the 100 MHz to 2 GHz range. Featuring high directivity and precise tracking between auxiliary arms, it is ideal for reflectometer applications and simultaneous reflection and transmission measurements in coaxial systems.

SPECIFICATIONS

Physical

Dimensions (W×H×D)	30 × 194 × 229 mm mm
Weight	1.3 kg

RF Performance Specifications

Frequency Range	100 MHz to 2 GHz
Nominal Coupling	20 dB
Mean Coupling Accuracy	±0.5 dB
Coupling Variation with Frequency	±0.7 dB
Coupling Flatness	±0.7 dB
Minimum Directivity (0.1 to 1.0 GHz)	36 dB
Minimum Directivity (1.0 to 2.0 GHz)	32 dB
Maximum Primary Line SWR	1.1
Maximum Auxiliary Line SWR	1.1
Maximum Insertion Loss	< 0.60 dB
Nominal Impedance	50 Ω
Auxiliary Outputs Tracking	Typically within 0.7 dB
Measurement Range	Over 4 octaves with 1 coupler
Measurement Modes	Simultaneous reflection and transmission measurements

Power Handling Ratings

Maximum Average Input Power	50 W
Maximum Peak Input Power	500 W

Physical and Mechanical Characteristics

Standard Mainline Connectors	Type-N female (input) / Type-N male (output)
Option 011 Mainline Connectors	APC-7
Option 012 Mainline Connectors	Type-N female (input and output)
Auxiliary Port Connectors	Type-N female

TECHNOLOGY

Coaxial Directional Coupler

APPLICATIONS

RF Power Monitoring and Swept Reflectometry

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