

KEYSIGHT TECHNOLOGIES (AGILENT HP)

772D

The Keysight (formerly Agilent HP) 772D is a high-performance, 20 dB dual-directional coupler designed for broadband swept measurements over the 2 to 18 GHz frequency range. It is ideal for reflectometer applications, allowing simple forward and reverse power measurements on transmitters and microwave systems when combined with power sensors and meters.

SPECIFICATIONS

Physical

Dimensions (W×H×D)	368 mm × 86 mm × 46 mm mm
Weight	1.4 kg

Frequency & Coupling Performance

Frequency Range (Minimum)	2 GHz
Frequency Range (Maximum)	18 GHz
Nominal Coupling	20 dB
Coupling Variation (Flatness)	±1.0 dB
Minimum Directivity (2 to 12.4 GHz)	30 dB
Minimum Directivity (12.4 to 18 GHz)	27 dB
Tracking Between Auxiliary Arms	< ±0.7 dB

Insertion Loss & VSWR

Mainline Insertion Loss (2 to 12.4 GHz)	< 0.9 dB (including coupled power)
Mainline Insertion Loss (12.4 to 18 GHz)	< 1.1 dB (including coupled power)
Primary Line VSWR (Input Port, 2 to 12.4 GHz)	1.20
Primary Line VSWR (Input Port, 12.4 to 18 GHz)	1.25
Primary Line VSWR (Output Port / Test Port, 2 to 12.4 GHz)	1.25
Primary Line VSWR (Output Port / Test Port, 12.4 to 18 GHz)	1.35
Secondary Line VSWR (Coupled Ports, 2 to 12.4 GHz)	1.20
Secondary Line VSWR (Coupled Ports, 12.4 to 18 GHz)	1.35

Power & Impedance

Nominal Impedance	50 Ω
Maximum Input Power (CW)	50 W
Maximum Peak Power	500 W

Port & Connector Configurations

Primary Input Connector Type	Type-N
Primary Input Connector Gender	Female
Primary Output Connector Type (Test Port)	APC-7
Coupled Port Connector Type (Incident)	Type-N
Coupled Port Connector Gender (Incident)	Female
Coupled Port Connector Type (Reflected)	Type-N
Coupled Port Connector Gender (Reflected)	Female

Physical Dimensions & Mechanical

Overall Length	368 mm
Overall Width	46 mm
Overall Height	86 mm
Net Weight	1.4 kg
Shipping Weight	2.2 kg

General

Coupler Type	Dual-Directional
Internal Termination	Yes

Options

Option 001 Connectors	Type-N (f) on mainline input and output ports
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TECHNOLOGY

Coaxial Dual-Directional Coupler

APPLICATIONS

Broadband swept measurements, reflectometer setups, and power monitoring

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