

KEYSIGHT TECHNOLOGIES (AGILENT HP)

16196A

The Keysight 16196A is a high-precision RF SMD test fixture designed for coaxial impedance measurements of parallel-electrode surface-mount devices (SMD). Specifically optimized for 1608 (metric) / 0603 (EIA) case sizes, it provides exceptional repeatability and accuracy up to 3 GHz. The direct APC-7 connection enables seamless integration with Keysight's range of RF impedance analyzers and LCR meters.

SPECIFICATIONS

Physical

Operating Temperature	-55 °C to +85 °C °C
Dimensions (W×H×D)	50 (W) x 67 (H) x 50 (D) mm mm
Weight	0.25 kg kg

General Information

Product Type	RF SMD Test Fixture
Fixture Configuration	Parallel Electrode
Compatible Instruments	E4991A, E4991B, 4291A, 4291B, 4287A, E4982A
Measurement Parameter Support	Impedance (Z, Y, θ , R, X, G, B, C, L, Q, D)

Electrical Specifications

Frequency Range	DC to 3 GHz
Maximum Voltage	±40 V peak max. (AC+DC)

DUT Compatibility

Supported EIA SMD Case Sizes	0603
Supported Metric SMD Case Sizes	1608
Minimum DUT Length	1.45 mm
Maximum DUT Length	1.75 mm
Minimum DUT Width	0.65 mm
Maximum DUT Width	0.95 mm
Minimum DUT Height	0.3 mm
Maximum DUT Height	0.9 mm
Electrode Contact Method	Parallel electrode contact using pressure cap

Connectivity and Interfaces

Instrument Connector Type	APC-7
Port Configuration	1-port (coaxial)
Terminal Connection Alignment	Direct connection to instrument
Shielding Type	Fully shielded coaxial structure

Calibration and Compensation

Required Compensation Types	Open, Short, Load (50 Ω)
Calibration Standard Impedance	50 Ω nominal

Electrical Characteristics

Characteristic Impedance	50 Ω
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TECHNOLOGY

RF Impedance Measurement

APPLICATIONS

SMD Component Testing (1608/0603 size)

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