

**Overview**

Impedance Test Accessories are designed to make measurements of passive components simple and reliable when using the Agilent RF LCR meters or impedance analyzers. Agilent Technologies 16191A, 16192A, 16194A, 16196A/B/C and 16197A series of test fixtures allow impedance measurements of SMD passive components up to 3GHz.

**Agilent 16191A bottom electrode SMD test fixture**

This test fixture is designed for impedance evaluations of bottom electrode SMD components. The minimum SMD size that this fixture is adapted to evaluate is 2 (L) [mm].

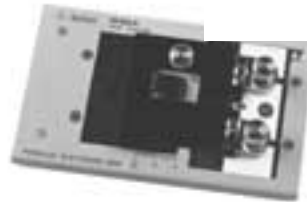
Agilent16191A



**Agilent 16192A parallel electrode SMD test fixture**

This test fixture is designed for impedance evaluations of parallel electrode SMD components. The minimum SMD size that this fixture is adapted to evaluate is 1 (L) [mm].

Agilent 16192A



**Agilent 16194A high temperature component test fixture**

This test fixture is designed for measuring both axial/radial leaded devices and SMD components within the temperature range from -55 to +200° (recommended to be used with Agilent 4291B's high temperature test head).

Agilent 16194A



**Agilent 16196A/B/C parallel electrode SMD test fixture**

This test fixture is designed for impedance evaluations of parallel electrode SMD components. It accommodates small SMD sizes : 0603(inch)/1608(mm),0402(inch)/1005(mm) or 0201(inch)/0603(mm). In addition, it provides highly repeatable measurements and achieves stable frequency characteristics at 3GHz.

Agilent 16196A/B/C



**Agilent 16197A bottom electrode SMD test fixture**

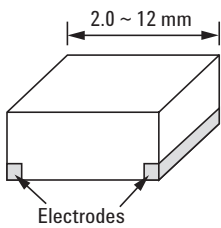
This test fixture is designed for impedance evaluations of bottom electrode SMD components up to 3GHz. This test fixture accommodates various sizes of SMDs; as small as 1005(mm)/0402(inch) and as large as 3225(mm)/1210(inch). Accommodation of the 0603(mm)/0201(inch) SMD is available with Option 001.

Agilent 16197A

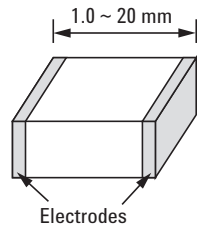


## Specifications

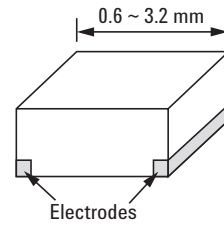
Agilent model	Frequency range	Terminal connector	Maximum voltage peak max (AC + DC)	Operating temperature	Electrode configuration	Device under test size
16191A	DC to 2 GHz	7 mm	±40 V	-55 to +85°C	Bottom	2.0 to 12 mm (length)
16192A	DC to 2 GHz	7 mm	±40 V	-55 to +85°C	Parallel	1.0 to 20 mm (length)
16194A	DC to 2 GHz	7 mm	±40 V	-55 to +200°C	Bottom	See figure below
16196A	DC to 3 GHz	7 mm	±40 V	-55 to +85°C	Parallel	0603 (inch)/1608 (mm)
16196B	DC to 3 GHz	7 mm	±40 V	-55 to +85°C	Parallel	0402 (inch)/1005 (mm)
16196C	DC to 3 GHz	7 mm	±40 V	-55 to +85°C	Parallel	0201 (inch)/0603 (mm)
16197A	DC to 3 GHz	7 mm	±40 V	-55 to +85°C	Bottom	0.6 to 3.2 mm (length)



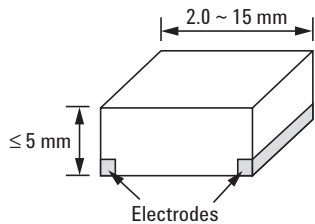
Agilent 16191A



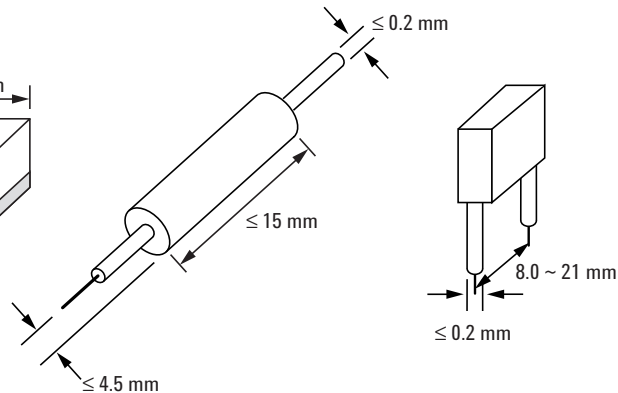
Agilent 16192A



Agilent 16197A



Agilent 16194A



Agilent 4287A  
RF LCR meter 1 MHz to 3 GHz



Agilent E4991A  
RF impedance/material analyzer  
1 MHz to 3 GHz



Agilent 4396B  
network/spectrum/impedance analyzer  
100 kHz to 1.8 GHz/2 Hz to 1.8 GHz/  
100 kHz to 1.8 GHz