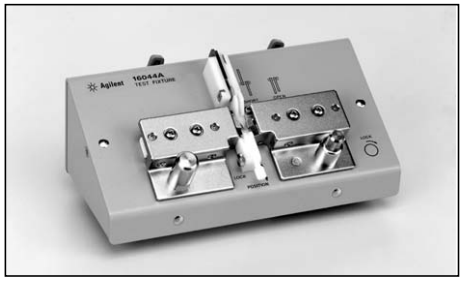
16044A Test Fixture

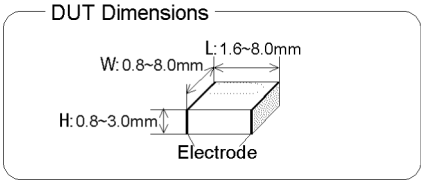


Terminal Connector: 4-Terminal Pair, BNC
DUT Connection: 4-Terminal
Dimensions (approx.):
160(W) x 70(H) x 98(D) [mm]
Weight (approx.): 550 g
Additional Error:

Type of Error	Impedance
Proportional Error	2 x $(f/10)^2$[%]
Open Repeatability	1.5 + 200 x (f/10) [nS]
Short Repeatability	1.5 + 40 x (f/10) [mΩ]

f: [MHz]

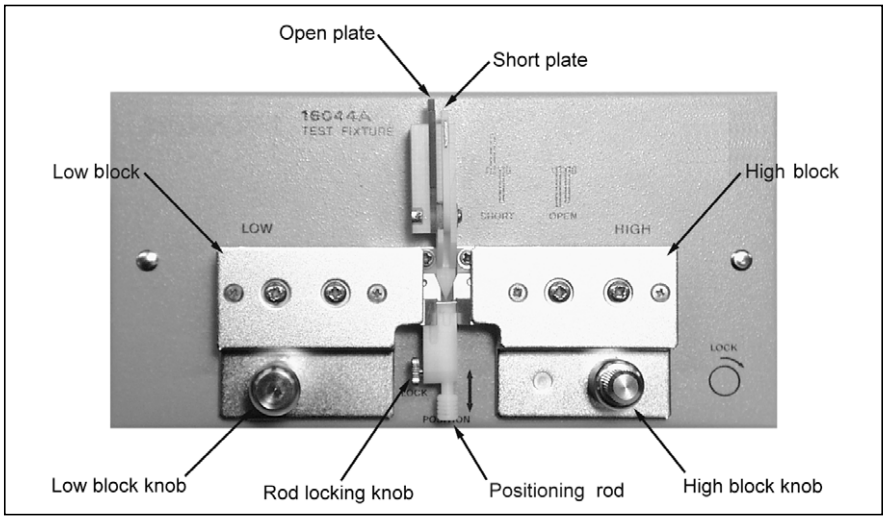
Description: This test fixture is designed for impedance evaluations of low impedance SMD. The minimum SMD size that this fixture is adapted to evaluate is 1.6(L) x 0.8(W) [mm]. The 16044A has a Kelvin (4-Terminal) contact, which ensures repeatable measurements. It is also equipped with a mechanism for easily performing open and short compensation.
Applicable Instruments: 4263B, 4268A, 4279A*, 4284A*, 4288A, 4338B, E4980A, E4981A, (4285A, 4294A)**
* denotes the instrument is obsolete.
** applicable in a limited frequency range.
Frequency: DC to 10 MHz
Maximum Voltage: ±40 V peak max (AC+DC)
Operating Temperature: 0 °C to 55 °C
DUT Size: See figure below



Furnished Accessories:

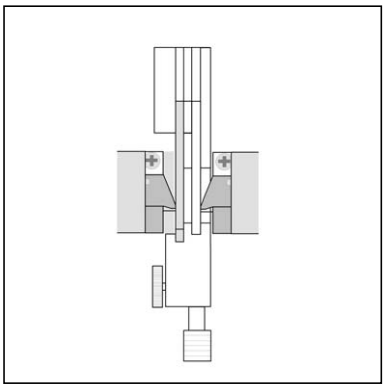
Description	P/N	Qty.
Cleaning Rod	5182-7586	1
Operation and Service Manual	16044-90020	1

To maintain the measurement precision, it is recommended that contact pins be replaced approximately every 50,000 times (supplementary value).

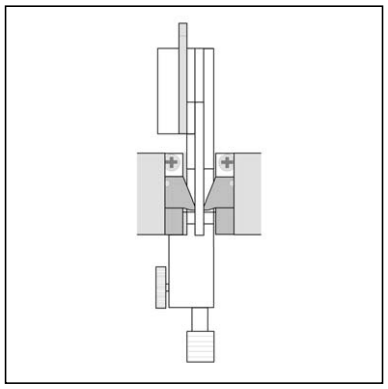


Test fixture overview

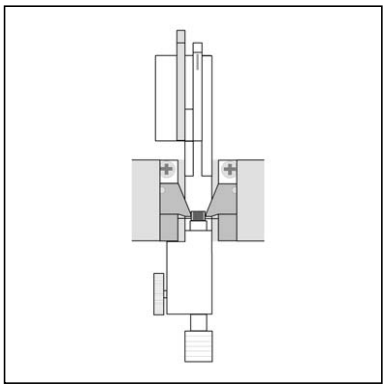
Compensation and Measurement: Open and short compensations are recommended before measurement. Short compensation is performed by bringing down the shorting plate (which is already on the fixture) to short all 4 terminals. Open compensation is performed by bringing down both the open plate and the shorting plate to separate the high terminals from the low terminals. After performing open and short compensations, the DUT is inserted into the test fixture. The figures below show how compensation and measurement are performed.



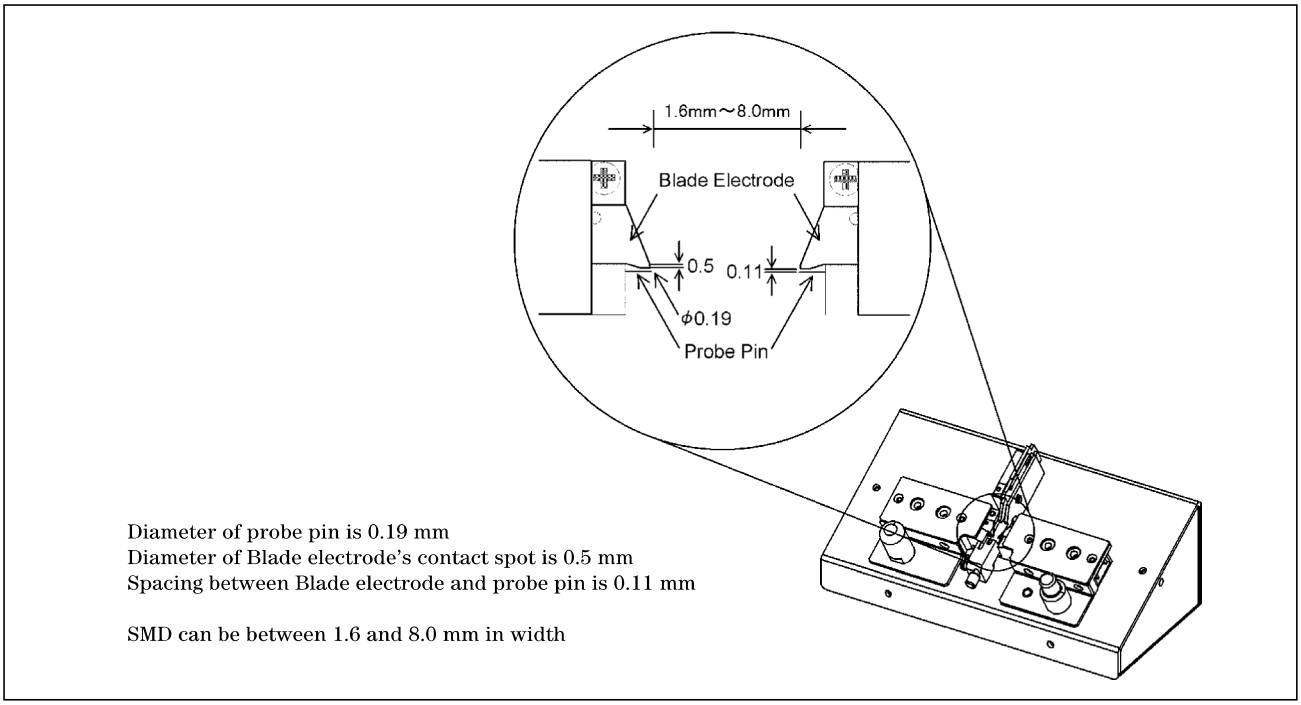
Open compensation



Short compensation



Inserting a DUT



Electrode dimensions