Agilent U1782B SMD Tweezers
Operating Instructions

This SMD tweezers is designed for use with the Agilent U1700 Series Handheld LCR Meters to measure SMD-type components.

Assistance

For technical assistance, contact your nearest Agilent Sales Office or visit the Agilent website at http://www.agilent.com/find/assist for further information.

Electrical characteristics[1]

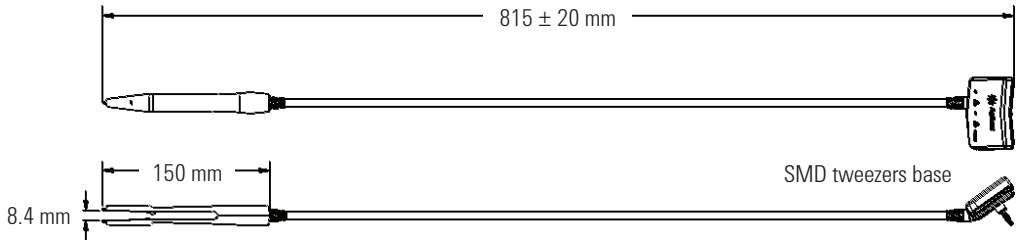
Parameters	Test condition	100 Hz	120 Hz	1 kHz	10 kHz	100 kHz
Cp (Parallel Capacitance)	Tweezers open	< 0.7 pF	< 0.7 pF	< 0.7 pF	< 0.7 pF	< 0.7 pF
Rs (Series Resistance)	Tweezers short	< 0.5 Ω	< 0.5 Ω	< 0.5 Ω	< 0.5 Ω	< 0.5 Ω
Ls (Series Inductance)	Tweezers short	< 1.2 µH	< 1.2 µH	< 1.2 µH	< 1.2 µH	< 1.2 µH

Environmental condition

The U1782B SMD tweezers is for indoor use only and for altitudes of up to 2000 m.
Operating temperature: –10 °C to 55 °C (14 °F to 131 °F), RH 80%
Storage temperature: –30 °C to 70 °C (–22 °F to 158 °F)

Operation

Plug in the base of the tweezers to the LCR meter's + (HI-SENSE), – (LO-SENSE), and GUARD ends. Ensure that the orientation of the base matches the polarity of the LCR meter. You are recommended to measure the SMD components' length as well as the maximum opening of the tweezers. The length of the tweezers is approximately 815 mm (32.08 inches).



Cleaning and maintenance

Before cleaning the U1782B SMD tweezers, ensure that the tweezers is disconnected from the meter and test point. To clean the tweezers, wipe the dirty parts with gauze or soft cloth soaked with a diluted neutral detergent. After cleaning, leave the test lead to dry completely. If any portion of the SMD tweezers is worn or damaged, do not use.

[1] The specification is specified at 23 °C ± 5 °C and <75% RH
You are recommended to perform an open/short calibration on the LCR meter before using the tweezers.

Printed in Taiwan, March 2012

Agilent Technologies

U1782-90101