

42842B Bias Current Test Fixture

DUT Connection: 2-Terminal

Bias Voltage Output connector: BNC(f)

Dimensions (approx.):

237(W) x 173(H) x 235(D) [mm]

Weight (approx.): 3000 g

Basic Measurement Accuracy:

2% (< 1 kHz), 1% (\geq 1 kHz)

For detailed information, refer to the operation manual of 42841A.

Description: This test fixture is designed for use with the 42841A. It is connected directly to the bias current output terminals of the 42841A. The following features ensure accurate and safe DC bias measurements:

- Clear plastic cover is provided for safe measurements.
- Opening the cover decreases the voltage generated by back-e.m.f. (electromotive force) to a level below 40 V within 0.1 second.
- Heat-sensitive switch prevents DUT from overheating.
- Also equipped with DC bias voltage monitoring.

Applicable Instrument: E4980A with Option E4980A-002, 4284A* with Option 4284A-002

* denotes the instrument is obsolete.

Frequency: 20 Hz to 2 MHz

Maximum DC Bias Current: 40 A

Operating Temperature: 5°C to 45°C

DUT Size: Smaller than 80(W) x 80(H) x 80(D) [mm]

Furnished Accessories:

| Description | P/N | Qty. |
|------------------------------|-------------|------|
| Protection Caps | N/A | 2 |
| Shorting Plate | 42842-00607 | 1 |
| Operation and Service Manual | 42842-90002 | 1 |

Compensation and Measurement: Short compensations is recommended before measurement. Short compensation is performed by shorting the measurement terminals together with the furnished shorting plate. After compensation, connect the DUT to the measurement terminals and close the test fixture cover.