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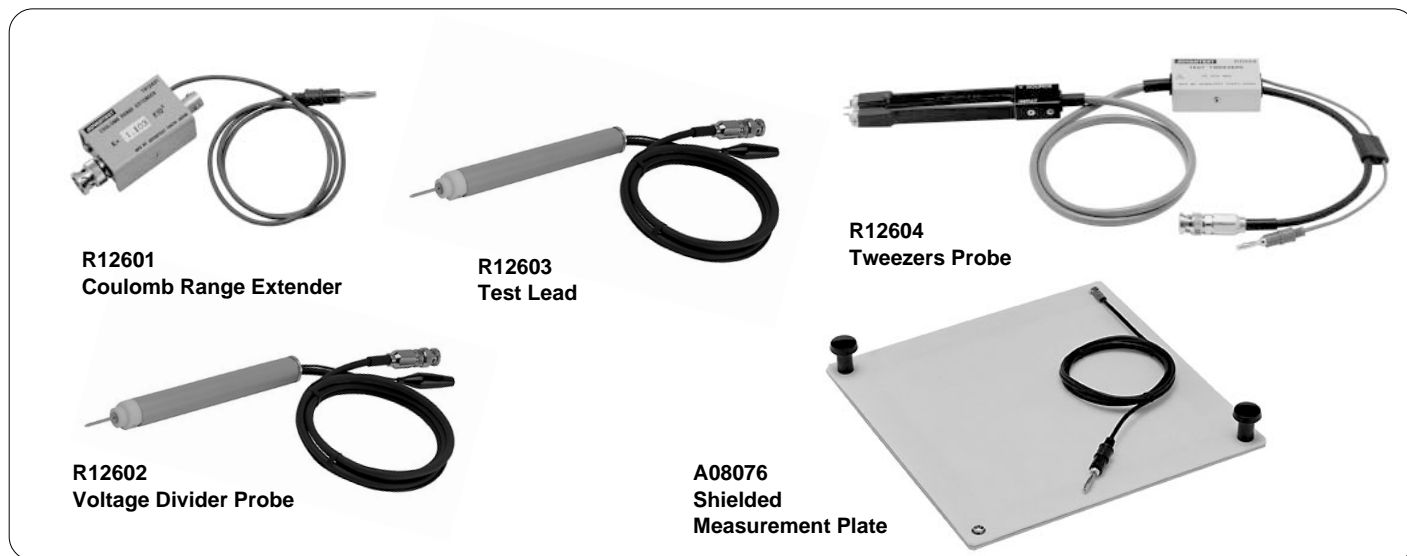
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R12601/12602/12603/12604



R12601
Coulomb Range Extender

R12603
Test Lead

R12604
Tweezers Probe

R12602
Voltage Divider Probe

A08076
Shielded
Measurement Plate

R12601 Coulomb Range Extender

By connecting the R12601 external capacitor to the TR8652 internal capacitor in parallel, the R12601 makes it possible to increase the capacity of capacitors and extend the range of charge measurement.

Specifications

TR8652 + R12601 measurement accuracy:

Range (extended range)	200 pC (200 nC)	2 nC (2 μ C)	20 nC (20 μ C)
TR8652 accuracy	$\pm 1\%$ +50 digits	$\pm 0.5\%$ +5 digits	$\pm 0.5\%$ +2 digits
R12601 accuracy	$\pm 3\%$		
Total accuracy	$\pm 4\%$ +5 digits	$\pm 3.5\%$ +5 digits	$\pm 3.5\%$ +2 digits

The measurement accuracy is expressed as \pm (% of reading +digits) at $\pm 23^\circ\text{C} \pm 5^\circ\text{C}$ and 70%RH or less for 6 months. For R12601, it is expressed as \pm (% of reading).

Operating environment: Temperature $+5^\circ\text{C}$ to $+35^\circ\text{C}$, Humidity 70%RH or less

Dimensions: Approx. 335 (W) \times 23.5 (H) \times 80 (D) mm

Cable with alligator clips: Approx. 780 mm

Weight: 80 g max.

R12602 Voltage Divider Probe

The R12602 voltage divider probe is used when measuring high voltage with high impedance using the TR8652 or R8240. The R12602's splitting ratio of 100:1 makes it possible to measure voltage as high as 2,000 V using the TR8652 or R8240 with a maximum measurement voltage of 20 V. Both the main unit and connection cable have double coaxial structure.

Specifications

Splitting ratio: 1 : 100

Input impedance: Approx. $1 \times 10^{10} \Omega$

Maximum measurement voltage: 2.5 kVDC (continuous)

Measurement accuracy: $\pm 3\%$ of reading ± 5 ppm/V

Output connector: Triaxial connector

Operating environment range: Temperature $+5^\circ\text{C}$ to $+35^\circ\text{C}$, Humidity 70%RH or less

Dimensions: Approx. 29 (Max. diameter) \times 174 (Length) mm, Cable length of approx. 1000 mm

Mass: 200 g max.

R12603 Test Lead

The R12603 test lead is a probe suitable for measurement in which the measurement is changed in succession, e.g., measurement of insulation resistance between patterns on printed circuit boards using the TR8652, R8340 or R8240.

Specifications

Capacity: 100 pF or less

Insulation resistance: 10^{14} or more

Signal line resistance: 0.2 Ω or less

Maximum allowable applied voltage: 1100 VDC (1 minute, Use the test lead with a voltage below the maximum allowable applied voltage of the equipment to be connected.)

Maximum allowable applied current: 2 ADC

Output connector: Triaxial connector

Operating environment: Temperature $+5^\circ\text{C}$ to $+35^\circ\text{C}$, Humidity 70%RH or less

Dimensions: Approx. 29 (max. diameter) \times 174 (L) mm

Cable length: Approx. 1000 mm

R12604 Tweezers Probe

The R12604 is connected to the R8340/8340A to measure the insulation resistance of chip capacitors. With the tweezers-like shape, small chip components can be measured easily and efficiently. In particular the A08076 (optional) shield measurement plate is Teflon-coated, allowing measurement with little inductive noise.

Specifications

Connectors : Input triaxial connector, voltage application, alligator clips

Dielectric strength/insulation resistance:

	Dielectric strength	Insulation resistance (Ω)
Between INPUT signal line and V SOURCE	1.1 kV	10^{14} or more
Between INPUT signal line and chassis	1.1 kV	10^{14} or more
Between V SOURCE and chassis	1.1 kV	10^9 or more

Allowable applied voltage: DC100 V

Applicable sample: Chip components with an electrode distance of 1.0 to 8.0 mm

Operating environment: Temperature $+5^\circ\text{C}$ to $+35^\circ\text{C}$, Humidity 70%RH or less

Storage temperature range: 0°C to $+40^\circ\text{C}$

Dimensions: Approx. 28 (W) \times 13 (H) \times 140 (D) mm

Cable length: Approx. 1 m

Mass: 200 g max.

Accessories (optional) A08076 Shield Plate: 200 (W) \times 200 (D) mm