Low Current, 10-channel Scanner Cards for 6517B

Two optional 10-channel plug-in scanner cards are available to extend the measurement performance of the Model 6517B Electrometer/High Resistance Meter. The cards install directly into the option slot in the back panel of the Model 6517B. The cards are also compatible with the Models 6517A and 6517.

The Model 6521 Low Current Scanner Card is a 10-channel multiplexer, designed for switching low currents in multipoint testing applications or when the test configuration must be changed. Offset current on each channel is <1pA and high isolation is maintained between each channel (>10^15 Ω). The Model 6521 maintains the current path even when the channel is deselected, making it a true current switch. BNC input connectors help provide shielding for sensitive measurements and make the card compatible with low noise coaxial cables. The Model 6521 is well suited for automating reverse leakage tests on semiconductor junctions or gate leakage tests on FETs.

The Model 6522 Voltage/Low Current Scanner Card can provide up to ten channels of low-level current, high impedance voltage, high resistance, or charge switching. Although it is similar to the Model 6521 in many ways, the Model 6522's input connectors are 3-lug triax connectors that make it possible to float the card 500V above ground and drive guard to 200V.

![Model 6521 and 6522 scanner cards]

**Ordering Information**

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<th>6521</th>
<th>Low Current, 10-channel Scanner Card</th>
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<tr>
<td>6522</td>
<td>Low Current, High Impedance Voltage, High Resistance, 10-channel Scanner Card</td>
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**Model 6521 Specifications**

- Channels per card: 10
- Functions: Amps
- Contact configuration: Single pole, “break-before-make” for signal HI input. Signal LO is common for all 10 channels and output. When a channel is off, signal HI is connected to signal LO.
- Connector type: Inputs BNC. Outputs Triaxial.
- Signal level: 30V, 50mA, 10VA (resistive load).
- Contact life: >10^10 closures at maximum signal level, >10^13 closures at low signal levels.
- Contact resistance: <1Ω.
- Offset current: <1pA (<30fA typical at 23°C, <60% RH).
- Actuation time: 2ms.
- Common mode voltage: <300V peak.
- Environment: Operating: 0° to 50°C up to 35°C at 70% R.H. Storage: -25° to 65°C.

**Model 6522 Specifications**

- Channels per card: 10
- Functions: Volts, Amps
- Contact configuration: Single pole, “break-before-make” for signal HI input. Signal LO is common for all 10 channels and output. When a channel is off, signal HI is connected to signal LO. 6517B can also configure channels as voltage switches.
- Connector type: Inputs Triaxial. Outputs Triaxial.
- Signal level: 200V, 500mA, 10VA (resistive load).
- Contact life: >10^10 closures at maximum signal level, >10^13 closures at low signal levels.
- Contact resistance: <1Ω.
- Offset current: <1pA (<30fA typical at 23°C, <60% RH).
- Channel isolation: >10^12Ω, <0.3pF.
- Input isolation: >10^12Ω, <125pF (Input HI to Input LO).
- Actuation time: 2ms.
- Common mode voltage: <300V peak.
- Environment: Operating: 0° to 50°C up to 35°C at 70% R.H. Storage: -25° to 65°C.

**Services Available**

- 6521-3Y-EW: 1-year factory warranty extended to 3 years from date of shipment
- 6522-3Y-EW: 1-year factory warranty extended to 3 years from date of shipment

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