

# Selector Guide

## Switch Cards and Accessories for 707B, 708B, 707A, 708A

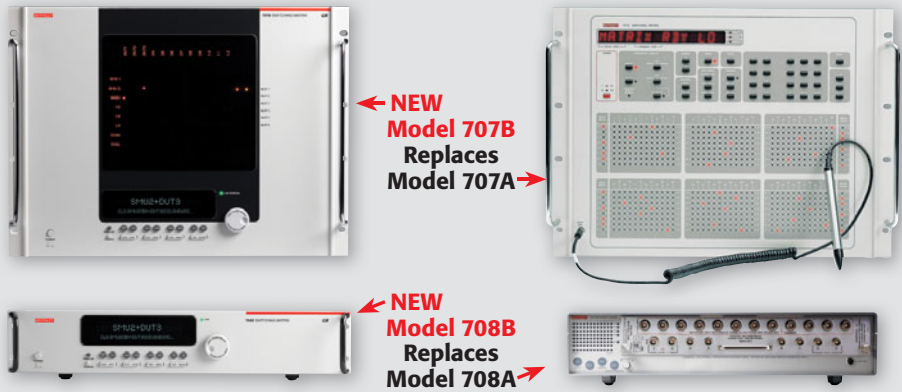
### New Models 707B and 708B replace Models 707A and 708A

Keithley Instruments recently introduced two new semiconductor switch matrix mainframes: the Model 707B six-slot mainframe and the Model 708B one-slot mainframe. The two new mainframes replace the Models 707A and

708A that were introduced more than 20 years ago. The new models provide important new capabilities and are compatible with the four most popular switch cards; however, there are a few capabilities that are exclusive to the

older models. The table shows the important differences between the new and old models. The 707A and 708A models will be available for a limited time.

|  | New 707/8B | Legacy 707/8A |
|--|------------|---------------|
| GPIB/DDC   | ✓          | ✓             |
| GPIB/ICL   | ✓          |               |
| Ethernet (LXI)   | ✓          |               |
| TSP/TSP-Link   | ✓          |               |
| Webpage (LXI)  | ✓          |               |
| Light Pen  |            | ✓             |
| Compatible with 7174A, 7072, 7072-HV, 7173-50 switch cards | ✓          | ✓             |
| Compatible with 7071, 7071-4, 7075 switch cards            |            | ✓             |



|                       | LOW CURRENT                               |             |             | GENERAL PURPOSE                          |   |             | HIGH FREQUENCY |
|-----------------------|---|-------------|-------------|--|---|-------------|----------------|
|                       | 7072                                      | 7072-HV     | 7174A       | 7071                                     | 7071-4  | 7075        | 7173-50        |
| Page                  | 203                                       | 204         | 207         | 201                                      | 202   | 205         | 206            |
| Number of Channels    | 8×12                                      | 8×12        | 8×12        | 8×12                                     | Dual 4×12                                     | Eight 1×12  | 4×12           |
| Card Configuration    | Matrix                                    | Matrix      | Matrix      | Matrix                                   | Matrix  | Multiplexer | Matrix         |
| Contact Configuration | 2 form A                                  | 2 form A    | 2 form A    | 3 form A                                 | 3 form A                                      | 2 form A    | 2 form C       |
| Max. Voltage          | 200 V                                     | 1300 V      | 200 V       | 200 V                                    | 200 V   | 110 V       | 30 V           |
| Max. Current          | 1 A                                       | 1 A         | 2 A         | 500 mA                                   | 500 mA  | 1 A         | 0.5 A          |
| Max. Power            | 10 VA                                     | 10 VA       |             | 10 VA                                    | 10 VA   | 30 VA       | 10 VA          |
| Contact Potential     | <20 μV                                    | <20 μV      |             | <5 μV                                    | <5 μV   | <5 μV       | <15 μV         |
| Max. Offset Current   | <1 pA                                     | <1 pA       | <100 fA     | <100 pA                                  | <100 pA                                       | <100 pA     | <200 pA        |
| Recommended Frequency | 15 MHz                                    | 4 MHz       | 30 MHz      | 3 MHz                                    | 3 MHz   | 30 MHz      | 200 MHz        |
| Connection Type       | 3-lug triax                               | 3-lug triax | 3-lug triax | Connector                                | Connector                                     | Connector   | BNC            |
| CE                    | Yes                                       |             | Yes         | Yes                                      | Yes   | Yes         | Yes            |
| Comments              | Optimized for semiconductor applications. |             |             | Also provides screw terminal connection. | Screw terminals available on row connections. |             |                |
| 707B-708B Compatible  | Yes                                       | Yes         | Yes         | No                                       | No  | No          | Yes            |
| 707A-708A Compatible  | Yes                                       | Yes         | Yes         | Yes                                      | Yes   | Yes         | Yes            |

### 707B, 708B, 707A, 708A Switch Card Accessories

|  | Cables       |             |           | Connectors |          | Adapters |              | Tools        |          |
|--|--------------|-------------|-----------|------------|----------|----------|--------------|--------------|----------|
|  | 7071, 7071-4 | 7072        | 7174A     | 7072-HV    | 7075     | 7173-50  |              |              |          |
|  | 7078-MTC-5   | 7078-MTC-20 |           | 7078-KIT   | 7078-MTR |          |              | 7078-CIT     | 7078-HCT |
|  | 7078-TRX-3   | 7078-TRX-10 |           |            |          |          | 237-TRX-T    | 7078-TRX-BNC |          |
|  | 7078-TRX-3   | 7078-TRX-10 |           |            |          |          | 237-TRX-T    | 7078-TRX-BNC |          |
|  | 7078-TRX-3   | 7078-TRX-10 |           |            |          |          | 7078-TRX-BNC | 237-TRX-T    |          |
|  |              |             |           |            |          |          | 7078-TRX-GND | 237-TRX-TBC  |          |
|  | 7075-MTC     | 7076-CMTC   | 7076-RMTC |            |          |          |              |              |          |
|  | 7173-50-CSEP |             |           |            |          |          |              |              |          |

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