

# 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 most

popular switch cards. The table shows the important differences between the new and old models.

|  | New 707/8B | Legacy 707/8A |
|--|------------|---------------|
| GPIO/DDC   | ✓          | ✓             |
| GPIO/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            |            | ✓             |



← NEW Model 707B Replaces Model 707A →



← NEW Model 708B Replaces Model 708A →



|                       | LOW CURRENT                               |             |             | HIGH FREQUENCY |          |
|-----------------------|---|-------------|-------------|----------------|----------|
|                       | 7072                                      | 7072-HV     | 7174A       | 7073           | 7173-50  |
| Page                  | 222                                       | 223         | 225         |                | 224      |
| Number of Channels    | 8×12                                      | 8×12        | 8×12        | 8×12           | 4×12     |
| Card Configuration    | Matrix                                    | Matrix      | Matrix      | Matrix         | Matrix   |
| Contact Configuration | 2 form A                                  | 2 form A    | 2 form A    | 1 form A       | 2 form C |
| Max. Voltage          | 200 V                                     | 1300 V      | 200 V       | 200 V          | 30 V     |
| Max. Current          | 1 A                                       | 1 A         | 2 A         | 1 A            | 0.5 A    |
| Max. Power            | 10 VA                                     | 10 VA       |             | 30 VA          | 10 VA    |
| Contact Potential     | <20 μV                                    | <20 μV      |             | <2 μV          | <15 μV   |
| Max. Offset Current   | <1 pA                                     | <1 pA       | <100 fA     | <200 pA        | <200 pA  |
| Recommended Frequency | 15 MHz                                    | 4 MHz       | 30 MHz      | 30 MHz         | 200 MHz  |
| Connection Type       | 3-lug triax                               | 3-lug triax | 3-lug triax | BNC            | BNC      |
| CE                    | Yes                                       |             | Yes         | Yes            | Yes      |
| Comments              | Optimized for semiconductor applications. |             |             |                |          |
| 707B-708B Compatible  | Yes                                       | Yes         | Yes         | Yes            | Yes      |
| 707A-708A Compatible  | Yes                                       | Yes         | Yes         | Yes            | Yes      |

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

|         | Cables       |             | Adapters                     |                          |
|---------|--------------|-------------|------------------------------|--------------------------|
|         | 7072         | 7078-TRX-3  | 7078-TRX-10                  | 237-TRX-T                |
| 7174A   | 7078-TRX-3   | 7078-TRX-10 | 237-TRX-T                    | 7078-TRX-BNC             |
| 7072-HV | 7078-TRX-3   | 7078-TRX-10 | 7078-TRX-BNC<br>7078-TRX-GND | 237-TRX-T<br>237-TRX-TBC |
| 7073    | 4801         |             |                              |                          |
| 7173-50 | 7173-50-CSEP |             |                              |                          |

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SWITCHING AND CONTROL