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Semiconductor test system switching for characterization and reliability

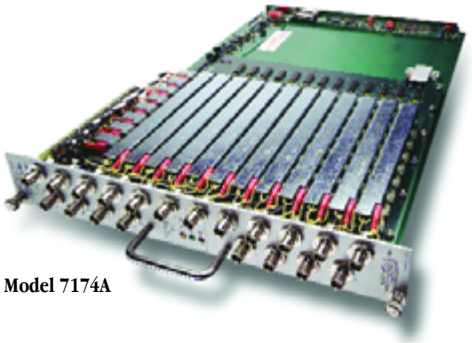
OUTSTANDING LOW CURRENT MATRIX CAPABILITY

Model 707A and 708A—large-scale matrix systems for world-class low current performance

The Model 707A and 708A provide outstanding low-current matrix capability and let you control up to 2880 channels or matrix crosspoints in real time. Their large matrix format makes them well suited for your large ATE system applications such as semiconductor device characterization, wafer level reliability, parallel test, and modeling. They are most often used in conjunction with Keithley's Model 4200-SCS semiconductor characterization system and Model 590 and 595 C-V analysis instrumentation.

Features:

- Fully configurable and controllable from the Model 4200-SCS characterization system front panel—for seamless integration in I-V and C-V applications.
- Easy integration with the Agilent 4155/56—gives industry wide compatibility.
- High capacity—with up to 6 cards linked via the Model 707A backplane you can build pin configurations of up to 8 rows × 72 columns per mainframe.
- Expandable—up to 5 mainframes can be connected through the master/slave feature and controlled from a single GPIB address.
- Fully interactive front panel with optional light pen control—for simple configuration in stand-alone applications.



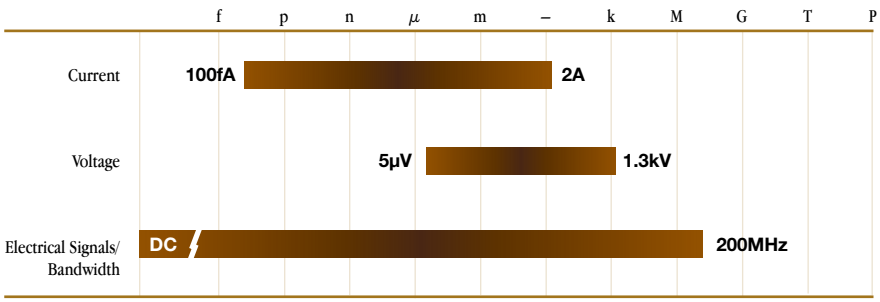
Model 7174A

Specifications of Model 707A/708A:

- Supports up to 576/96 channels, expandable to 2880/480 channels.
- Contains 6/1 card slot(s).
- Scans 200 channels/second.
- Contains 100 memory locations.
- Includes 16/8 digital inputs and 16/8 digital outputs.
- Fits into a 19 inch rack and is 14/3.5 inches high.

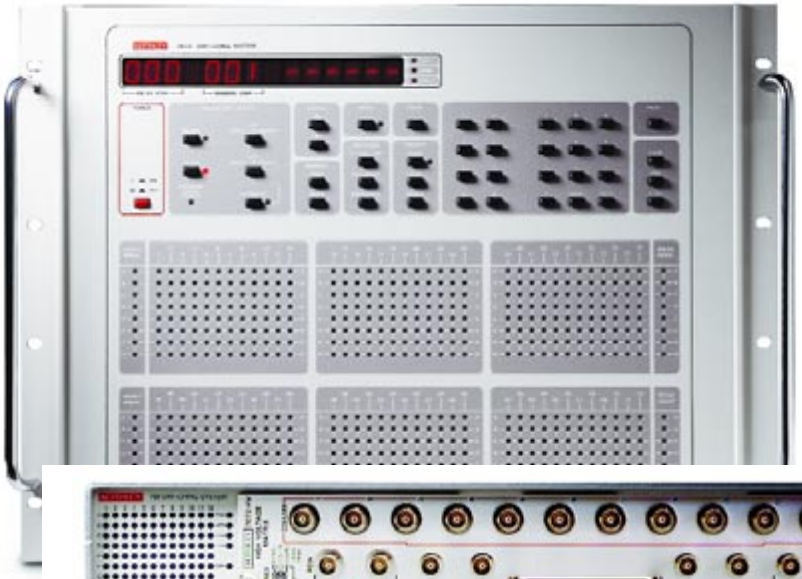
Switch/control cards for the Model 707A and 708A

A family of more than a dozen switch/control cards designed for semiconductor characterization applications can be used in the Model 707A and 708A. Some of the switch cards are general purpose like the Model 7071, while others have very unique capabilities, such as the Model 7174A card, which is an 8 × 12 configuration with 10fA typical offset current on all signal paths. The Model 7072 card combines low current and high frequency capability for C-V characterization to 1MHz.



Range of signals supported by the Model 707A and 708A switch/control cards

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The interactive front panels of the Model 707A and 708A allow full configuration of these mainframes during test design and troubleshooting of DUTs. LEDs display the real-time status of all matrix crosspoints. Open or close each crosspoint with a simple point and click of the optional light pen.





Standard Switch Matrix Configurations for I-V and C-V Characterization

GENERAL PURPOSE	LOW CURRENT	ULTRA LOW CURRENT
>100pA Uses Model 7071 switch card	**>1pA Uses Model 7072 switch card**	**<100fA Uses Model 7174A switch card**
• Component ATE • Best match to the 4200-SCS without optional PreAmps • Excellent for remote sense applications • Low cost, high density cables • Expandable from 8 × 12 to 8 × 72	• Basic device characterization • Good match to the 4200-SCS with or without optional PreAmps • Local sense, excellent for C-V meters and pulse generators • Standard triax cables • Expandable from 8 × 12 to 8 × 72	• High performance device characterization • Best match for the 4200-SCS when equipped with optional PreAmps • Local or remote sense, excellent for C-V meters and pulse generators • Standard triax cables • Expandable from 8 × 12 to 8 × 72, local sense • Expandable from 6 × 6 to 6 × 30, remote sense

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