

KEYSIGHT TECHNOLOGIES (AGILENT HP)

44473A

The Keysight (Agilent) 44473A is a 4x4 two-wire matrix switch module designed for use with the 3488A Switch/Control Unit mainframe. It provides a highly flexible matrix switching solution, allowing any combination of 4 inputs (columns) and 4 outputs (rows) to be connected. This module is ideal for connecting a group of test instruments to multiple points on a Device Under Test (DUT), supporting signals up to 250 V or 2 A.

SPECIFICATIONS

General

Interfaces	HP 3488A proprietary backplane connector, detachable screw terminal connection block
Display	None (status displayed on mainframe)
Mainframe Compatibility	HP / Agilent 3488A Switch/Control Unit

Physical

Power Supply	Powered directly from the HP 3488A mainframe backplane
Operating Temperature	0 to 55 °C °C
Weight	0.38 kg kg

Switch Characteristics

Switch Configuration	4x4 Matrix (Two-wire)
Number of Crosspoints	16
Terminal Block Type	Detachable screw terminal block

Electrical Ratings

Maximum Switching Voltage	250 V
Maximum Current per Channel	2 A
Maximum Current per Module	8 A
Maximum Power per Channel (DC)	30 W
Maximum Power per Channel (AC)	60 VA
Maximum Power per Module (DC)	120 W
Maximum Power per Module (AC)	240 VA

DC Performance

Initial Closed-Channel Resistance	< 1.0 Ω
Closed-Channel Resistance (End of Life)	< 2.0 Ω
Contact Life (No Load)	10 ⁷ operations
Contact Life (Rated Load)	10 ⁵ operations

AC Performance

Bandwidth (3 dB)	4 MHz
Crosstalk (at 100 kHz)	< -80 dB
Crosstalk (at 1 MHz)	< -58 dB
Isolation (at 100 kHz)	> 80 dB
Isolation (at 1 MHz)	> 58 dB

Switching Characteristics

Relay Type	Armature (latching)
Switching Speed	20 ms

Performance

Volt-Hertz Limit	10^7 V-Hz
High to Low Capacitance	< 10 pF
High/Low to Guard Capacitance	< 110 pF
Guard to Chassis Capacitance	< 400 pF
Crosstalk (at 10 MHz)	< -35 dB
Isolation (at 10 MHz)	> 35 dB

Connection

Maximum Wire Size	18 AWG
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TECHNOLOGY

Relay Matrix Switching

APPLICATIONS

Test System Routing and Instrument Multiplexing

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