

Keithley Instruments, Inc.
 28775 Aurora Road
 Cleveland, Ohio 44139
 1-888-KEITHLEY
 www.keithley.com

6x16 Matrix Specifications**96 two-pole crosspoints with column expansion relays**

MATRIX CONFIGURATION: 6 row by 16 column matrix. Columns can be expanded using the backplane or isolated by relays.

CONTACT CONFIGURATION: 2 pole form A.

CONNECTOR TYPE: Two 50 pin male D-shells.

MODEL 3730-ST SCREW TERMINAL OPTION:

#22 AWG typical wire size with .062 inch O.D. 88 conductors maximum. #16 AWG maximum wire size with .092inch O.D. 44 conductors per card maximum.

MAXIMUM SIGNAL LEVEL: 300V DC or RMS, 1A switched (2A carry), 60W, 125VA.

COMMON MODE VOLTAGE: 300V DC or RMS between any terminal and chassis.

VOLT-HERTZ LIMIT: 8×10^7

CONTACT LIFE: $> 10^5$ operations at max signal level.

$> 10^8$ operations no load.¹

	6x16 ^{2, 3}
Channel Resistance (end of contact life)	$< 1.0\Omega$
Contact Potential (differential)	$< \pm 2\mu\text{V}$
Offset Current	$< \pm 100\text{pA}$
Isolation	
Differential	$10^{10}\Omega, 250\text{pF}$
CH –CH	$10^{10}\Omega, 75\text{pF}$
Common mode	$10^{10}\Omega, 150\text{pF}$
Crosstalk CH-CH	
300KHz:	$< -65\text{dB}$
1MHz:	$< -55\text{dB}$
20MHz:	$< -30\text{dB}$
Bandwidth	27MHz

¹ Minimum signal level 10mV, 10uA

² Connections made using 3730-ST

³ 3706 mainframe with all DMM backplane relays disconnected.

Keithley Instruments, Inc.
28775 Aurora Road
Cleveland, Ohio 44139
(440) 248-0400
www.keithley.com

6x16 Matrix Specifications**96 two-pole crosspoints with column expansion relays****GENERAL:****ACTUATION TIME:** 4ms**RELAY TYPE:** Latching electromechanical**RELAY DRIVE SCHEME:** Hybrid Matrix**INTERLOCK:** Backplane relays disabled when terminal assemble removed.**OPERATING ENVIRONMENT:**

Specified for 0°C to 50°C.

Specified to 70% R.H. at 35°C.

STORAGE ENVIRONMENT: -25°C to 65°C**WEIGHT:** 2.5lbs**SAFETY:** Conforms to European Union Directive 73/23/EEC, EN61010-1**EMC:** Conforms to European Union Directive 2004/108/EC, EN61326-1**ACCESSORIES AVAILABLE:**

3790-KIT-R 50 pin female D-sub connector kit (Contains 2 female D-sub connectors and 100 solder-cup contacts)

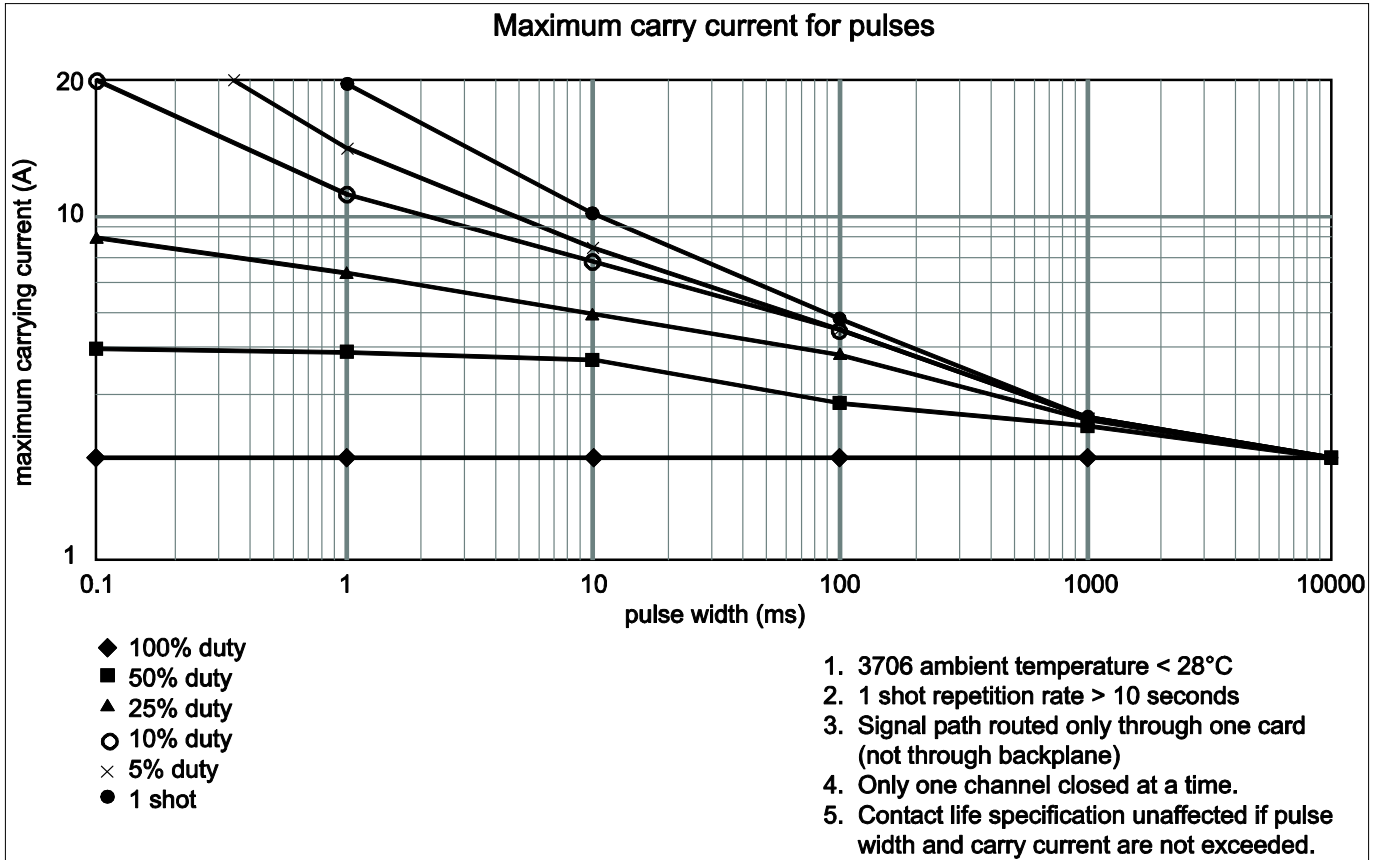
3721-MTC-1.5 50 pin D-sub female to male cable, 1.5m.

3721-MTC-3 50 pin D-sub female to male cable, 3m.

3730-ST screw terminal block

Keithley Instruments, Inc.
 28775 Aurora Road
 Cleveland, Ohio 44139
 1-888-KEITHLEY
 www.keithley.com

6x16 Matrix Specifications 96 two-pole crosspoints with column expansion relays



Keithley Instruments, Inc.
 28775 Aurora Road
 Cleveland, Ohio 44139
 (440) 248-0400
 www.keithley.com

6x16 Matrix Specifications

96 two-pole crosspoints with column expansion relays

