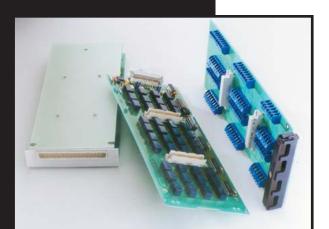
7111-S

7011-C, 7011-S, 40-channel Multiplexer Cards Quad 1×10 Multiplexer Configuration



The Model 7011 40-channel multiplexer has four independent banks of 1×10 switching. Each channel is 2-pole. These four banks can be combined for a wide variety of switching configurations—for example, dual 1×20, or 1×10 and 1×30, or one large 1×40. The 7001 mainframe can automatically configure the 7011 to switch 4-pole signals by combining channel pairs. This gives you a dual 1×10 4-pole multiplexer or a single 1×20 4-pole multiplexer.

Each of the four multiplexer outputs on this card connects to the 7001/7002 analog backplane through removable jumpers for even greater flexibility. Two 7011 cards can be used to make a single 1×80 multiplexer with all intercard connections through the backplane. The 7011 multiplexer outputs can also be connected to the rows of the 7012 via the backplane for row expansion.

The Model 7111-S is a form C version of the 7011-S. The 7111-S is a low-voltage, quad 1×10, single-pole form C multiplexer card. The 7111-S assembly consists of a screw terminal connector card and a relay card. External test circuits are wired directly to the screw terminals of the connector card.

These cards automatically configure the 7001 or 7002 mainframe. Two connection options are available, screw terminal for maximum flexibility or a single 96-pin quick disconnect connector.

MULTIPLEX CONFIGURATION: Four independent 1×10 2-pole multiplex banks or two independent 1×10 4-pole multiplex banks.

7011-S and 7111-S: Screw terminal, #16AWG maximum wire size, with 0.092 inch O.D. 28 conductors per card maximum.

Adjacent banks can be connected together. Jumpers can be removed to isolate any bank from the backplane.

CONTACT CONFIGURATION: 2-pole Form A (Hi, Lo) (1-pole form C for 7111-S).

#22AWG typical wire size with 0.062 inch O.D. 88 conductors per card maximum

AC Signals: 125V rms and 175V AC peak, between any two pins, 1A switched, 60VA (resistive load).

<3µV typical per single contact.

DC Signals: 110V DC between any two pins, 1A switched. 30VA (resistive load).

CONTACT LIFE: Cold Switching: 108 closures. At Maximum Signal Levels: 105 closures.

- Quad 1×10 multiplexer for 2-, 4-, or 8-pole operation
- Connects to 7001/7002 backplane for easy expandability
- 500nV, 100pA offsets

7011-S

7111-S Quad 1×10 Form C Multiplexer with Screw Terminal

ACTUATION TIME: 3ms. ISOLATION:

Bank: >109 Ω , <25pF.

OFFSET CURRENT: <100pA

CONNECTOR TYPE:

MAXIMUM SIGNAL LEVEL:

7011-C: 96-pin male DIN connector.

COMMON MODE VOLTAGE: 175V peak, any pin to chassis.

CONTACT POTENTIAL: 7011-C: <1µV per channel contact pair

CHANNEL RESISTANCE (per conductor): <1Ω.

Channel to Channel: $>10^9\Omega$, <50pF.

Differential: Configured as 1×10: >10 $^{9}\Omega$, <100pF. Configured as 1×40: $>10^{9}\Omega$, <200pF.

Common Mode: Configured as 1×10: >10°Ω, <200pF. Configured as 1×40: $>10^{9}\Omega$, <600pF.

CROSSTALK (1MHz, 50Ω Load): Bank: <-40dB. Channel: <-40dB.

INSERTION LOSS (50 Ω Source, 50 Ω Load): <0.1dB below 1MHz, <3dB below 2MHz.

RELAY DRIVE CURRENT (per relay): 7011-C, -S: 16mA 7111-S: 28mA

7011-C Quad 1×10 Multiplexer with 96-pin Mass Terminated **Connector Board**

> Quad 1×10 Multiplexer with Screw Terminal

Connector Board

Connector Board

ACCESSORIES AVAILABLE

FOR 7011-C:

7011-MTR

7011-KIT-R 96-pin Female Connector Kit 7011-MTC-1 96-pin Mass Terminated Cable, Female to Female, 1m 7011-MTC-2 96-pin Mass Terminated Cable, Female to Female, 2m

96-pin Male Connector Kit

FOR 7011-S AND 7111-S:

Extra Screw Terminal Connection Board

SERVICES AVAILABLE

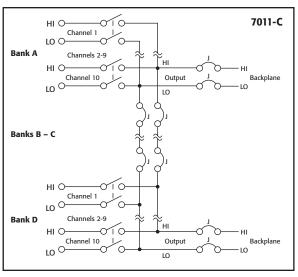
7011-C-3Y-EW 1-year factory warranty extended to 3 years from date of shipment 7011-S-3Y-EW 1-year factory warranty extended to 3 years

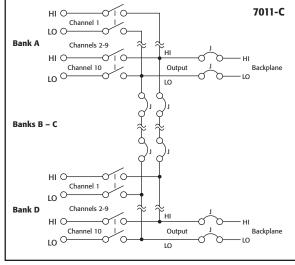
from date of shipment 7111-S-3Y-EW 1-year factory warranty extended to 3 years

from date of shipment

1.888.KEITHLEY (U.S. only)

www.keithley.com





7011-S, **7111-S**: $<2\mu V$ per contact pair

<5µV typical per single contact.

