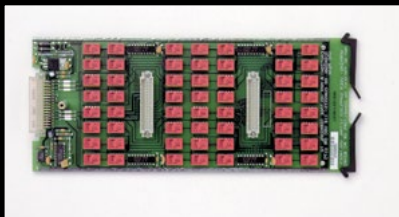


7018-C 7018-S



- **Dual 1×14 (28-channel) multiplexer for 3- or 6-pole operation**
- **Connects to 7001/7002 backplane for easy expandability**

Ordering Information

- 7018-C** Quad 1×10 Multiplexer with 96-pin Mass Terminated Connector Board
- 7018-S** Dual 1×14 Multiplexer with Screw Terminal Connector Board

7035



- **Great fit for low frequency telecom test**

Ordering Information

- 7035** 9 Bank 1×4 Multiplexer Switching Card

Accessories Supplied

- 7011-KIT-R** 96-pin Female Connector Kit

28-channel 3-Pole Multiplexer

The Model 7018 28-channel multiplexer has two independent banks of 1×14 switching. Each channel is 3-pole. The two banks can be combined for a variety of different switching configurations. Used separately, they provide a dual 1×14 3-pole configuration. Onboard jumpers can connect the outputs together for a single 1×28 3-pole arrangement. Both the 7001 and 7002 switch systems can use the two banks in parallel for 6-pole operation in a 1×14 configuration.

MULTIPLEX CONFIGURATION: 2 independent 1×14 3-pole multiplex banks or one 1×14 6-pole multiplexer. Jumpers can be removed to isolate any bank from the backplane.

CONTACT CONFIGURATION: 3-pole Form A.

CONNECTOR TYPE: 7018-C: 96-pin male DIN connector.
7018-S: Screw terminal, #16AWG maximum wire size, with 0.092 inch O.D. 28 conductors per card maximum. #22AWG typical wire size with 0.062 inch O.D. 90 conductors per card maximum.

MAXIMUM SIGNAL LEVEL: DC Signals: 110V DC between any two pins, 1A switched, 30VA (resistive load).
AC Signals: 125V rms or 175V AC peak, between any two pins, 1A switched, 60VA (resistive load).

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

CONTACT LIFE: Cold Switching: 10⁸ closures.

At Maximum Signal Levels: 10⁵ closures.

CHANNEL RESISTANCE (per conductor): <1.5Ω.

CONTACT POTENTIAL: <5μV per single contact.

OFFSET CURRENT: <100pA.

ACTION TIME: 3ms.

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

ISOLATION: Bank: >10³Ω, <25pF.

Channel to Channel: >10³Ω, <50pF.

Differential: Configured as 1×14 >10³Ω, <100pF.

Configured as 1×28 >10³Ω, <200pF.

Common Mode: Configured as 1×14 >10³Ω, <400pF.

Configured as 1×28 >10³Ω, <650pF.

INSERTION LOSS (50Ω Source, 50Ω Load): <0.2dB below 1MHz, <3dB below 2MHz.

RELAY DRIVE CURRENT (per channel): 59mA. (Maximum of 11 channels on at same time.)

EMC: Conforms to European Union Directive 89/336/EEC.

SAFETY: Conforms to European Union Directive 73/23/EEC (meets EN61010-1/IEC 1010).

ENVIRONMENT: Operating: 0°C to 50°C, up to 35°C at 80% RH.
Storage: -25°C to 65°C.

ACCESSORIES AVAILABLE

FOR 7018-C

- 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

FOR 7018-S

- 7018-ST Extra Screw Terminal Connection Board

SERVICES AVAILABLE

- 7018-C-3Y-EW 1-year factory warranty extended to 3 years from date of shipment
- 7018-S-3Y-EW 1-year factory warranty extended to 3 years from date of shipment

10MHz 1×4 Multiplexer Card 9 Independent 1×4 2-Pole Multiplexers

The Model 7035 9-Bank Multiplexer Card has nine 1×4 multiplexers. The switch contact configuration for each channel is 2-pole form A. The card's nine banks can be combined for a wide variety of switching configurations using external connections. This flexibility makes the Model 7035 well-suited for production testing of a variety of telecommunications products and systems and low power portable devices.

MULTIPLEX CONFIGURATION: 9 independent 1×4 2-pole multiplex banks.

CONTACT CONFIGURATION: 2-pole Form A (Hi, Lo).

CONNECTOR TYPE: 96-pin male DIN connector (7011-KIT-R mating connector included).

MAXIMUM SIGNAL LEVEL: 60V DC, 30V rms, 42V peak between any two inputs or chassis, 1A switched. 30VA (resistive load).

CONTACT LIFE: Cold Switching: 10⁸ closures.

At Maximum Signal Levels: 10⁵ closures.

CHANNEL RESISTANCE (per conductor): <1Ω.

CONTACT POTENTIAL: <2μV per channel contact pair.
<5μV typical per single contact.

OFFSET CURRENT: <100pA.

ACTION TIME: 3ms.

ISOLATION: Bank: >10³Ω, <25 pF.
Channel to Channel: >10³Ω, <50 pF.
Differential: >10³Ω, <100pF.
Common Mode: >10³Ω, <200pF.

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

INSERTION LOSS (50Ω Source, 50Ω Load): <0.25dB below 1MHz, <3dB below 10MHz.

RELAY DRIVE CURRENT (per relay): 16mA.

ACCESSORIES AVAILABLE

- 7011-KIT-R 96-pin Female Connector Kit

SERVICES AVAILABLE

- 7035-3Y-EW 1-year factory warranty extended to 3 years from date of shipment

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