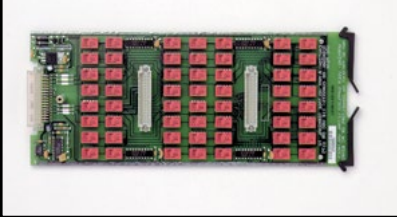


# 7018-C 7018-S



- **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: 10<sup>8</sup> closures.

At Maximum Signal Levels: 10<sup>5</sup> 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: >10<sup>2</sup>Ω, <25pF.

Channel to Channel: >10<sup>2</sup>Ω, <50pF.

Differential: Configured as 1×14 >10<sup>2</sup>Ω, <100pF.

Configured as 1×28 >10<sup>2</sup>Ω, <200pF.

Common Mode: Configured as 1×14 >10<sup>2</sup>Ω, <400pF.

Configured as 1×28 >10<sup>2</sup>Ω, <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
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## 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: 10<sup>8</sup> closures.

At Maximum Signal Levels: 10<sup>5</sup> 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: >10<sup>2</sup>Ω, <25 pF.

Channel to Channel: >10<sup>2</sup>Ω, <50 pF.

Differential: >10<sup>2</sup>Ω, <100pF.

Common Mode: >10<sup>2</sup>Ω, <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
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## SERVICES AVAILABLE

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