7035



 Great fit for low frequency telecom test

Ordering Information

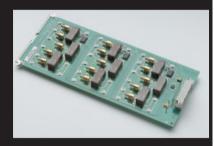
7035

9 Bank 1×4 Multiplexer Switching Card

Accessories Supplied

7011-KIT-R 96-pin Female Connector Kit

7038



- DC to 2GHz, 75 Ω , signal switching
- High channel to channel isolation
- Miniature SMB connectors

Ordering Information

7038

Three 1×4, 2GHz, 75 Ω Multiplexer

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): $< 1\Omega$.

CONTACT POTENTIAL: $<2\mu V$ per channel contact pair. $<5\mu V$ typical per single contact.

OFFSET CURRENT: <100pA.

ACTUATION TIME: 3ms.

 $>10^{9}\Omega$, <200pF.

Channel: <-40dB.

INSERTION LOSS (50Ω Source, 50 Load): <0.25dB below

RELAY DRIVE CURRENT (per relay): 16mA.

1MHz, <3dB below 10MHz.

ACCESSORIES AVAILABLE

7011-KIT-R 96-pin Female Connector Kit

7035-MTC-2 96-pin Mass Terminated Cable, Female to

Female, 2m

SERVICES AVAILABLE

7035-3Y-EV

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

2GHz RF Switch Card

3 Isolated 1×4 Multiplexers, 75 Ω

The Model 7038 75 Ω 2.0GHz Multiplexer Card is designed to speed testing and evaluation of a broad-range of telecommunications hardware, including coaxial cable-based equipment, cable television equipment, and high-speed Internet access products. The card simplifies automated switching of high-frequency RF signals, even those with bandwidths of up to 2GHz.

CHARACTERISTIC IMPEDANCE: 75Ω nominal. MULTIPLEXERS PER CARD: 3 (with isolated ground). CHANNELS PER MULTIPLEXER: 4.

CONTACT CONFIGURATION: 1-pole, 1 of 4 tree. Channels 1, 5, and 9 normally closed.

RELAY DRIVE CURRENT: 154mA per channel.

CONNECTOR TYPE: 75Ω miniature SMB receptacle.

ACTUATION TIME: 6ms.

MAXIMUM VOLTAGE: Any terminal (center or shield) to any other terminal or chassis: 24V.

MAXIMUM CURRENT: 10mA DC.

MAXIMUM POWER: 10W @ 1.2GHz.

ISOLATION: Multiplexer to Multiplexer: >1G Ω . Center to Shield: >1G Ω , 60pF. Channel to Channel: >100M Ω .

SIGNAL DELAY: <1ns. CONTACT POTENTIAL: 15μ V.

CONTACT LIFE: 3×10⁵ closures @ 24VDC, 10mA DC; 1×10⁵ closures @ 10W, 1.2GHz signal; 5×10⁶ closures @ cold switching.

CONTACT RESISTANCE: $<1\Omega$.

AC PERFORMANCE:

For $Z_L = Z_S = 75W$		≤100 MHz			
Insertion Loss (dB)	< 0.25	< 0.5	<1.0	<1.5	< 3.0
Crosstalk (dB)					
Channel-to-channel	<-90	<-80	<-65	<-55	<-40
Mux. to Mux.	<-90	<-80	<-70	<-60	<-55
VSWR	<1.2	<1.25	<1.5	<1.5	<2.2

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

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

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

SERVICES AVAILABLE

7038-3Y-EW

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

One of three 1×4 multiplexers

IN 1
Out A
Out A
IN 3
Out A
O

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