

Selector Guide

Switch Cards for 7001, 7002

	No. of Channels	Card Config.	Contact Config.	Max. Voltage	Max. Current	Max. Power	Contact Potential	Max. Offset Current	Recomm. Frequency	Connection Type	CE	Comments
HIGH DENSITY												
7011-C	40	Multiplexer	2 form A	110V	1A	60VA	<1 μ V	<100pA	2MHz	Connector	Yes	Four independent 1 $\times$ 10 multiplexers, connection to backplane
7011-S	40	Multiplexer	2 form A	110V	1A	60VA	<500nV	<100pA	2MHz	Screw term.	Yes	Four independent 1 $\times$ 10 multiplexers, connection to backplane
7012-C	4 $\times$ 10	Matrix	2 form A	110V	1A	60VA	<1 μ V	<100pA	2MHz	Connector	Yes	Rows connect to analog backplane
7012-S	4 $\times$ 10	Matrix	2 form A	110V	1A	60VA	<500nV	<100pA	2MHz	Screw term.	Yes	Rows connect to analog backplane
7013-C	20	Isolated Switch	2 form A	110V	1A	60VA	<1 μ V	<100pA	10MHz	Connector	Yes	
7013-S	20	Isolated Switch	2 form A	110V	1A	60VA	<500nV	<100pA	10MHz	Screw term.	Yes	
7015-C	40	Multiplexer	2 form A	175V	34mA	0.3VA	<5 μ V	<1nA	500kHz	Connector	Yes	Solid state switch for high reliability
7015-S	40	Multiplexer	2 form A	175V	34mA	0.3VA	<5 μ V	<1nA	500kHz	Screw term.	Yes	Solid state switch for high reliability
7018-C	28	Multiplexer	3 form A	110V	1A	60VA	<5 μ V	<100pA	2MHz	Connector	Yes	3 pole switching
7018-S	28	Multiplexer	3 form A	110V	1A	60VA	<5 μ V	<100pA	2MHz	Screw term.	Yes	3 pole switching
7035	36	Multiplexer	2 form A	60V	1A	30VA	<1 μ V	<100pA	10MHz	Connector	Yes	9 independent 1 $\times$ 4 multiplexers
7036	40	Isolated Switch	1 form A	60V	1A	30VA	<4 μ V	<100pA	10MHz	Connector	Yes	40 independent channels of 1-pole switching
7111-S	40	Multiplexer	1 form C	110V	1A	60VA	<500nV	<100pA	2MHz	Screw term.	Yes	Four independent 1 $\times$ 10 multiplexers, connection to backplane

Control

7019-C	Dual 3 $\times$ 6	Matrix	1 form A	200V	1A	10VA	<25 μ V	<100pA	2MHz	Connector	Yes	6-wire resistance measurements
7020	80	Digital I/O								Connector	Yes	40 inputs/40 outputs
7020-D*												
7021	30/20	Mux/Digital I/O	2 form A	110V	1A	30VA	<3 μ V	<100pA	10MHz	Connector	Yes	Dual multiplexers. Up to 30 channels, 10 digital inputs, 10 digital outputs.
7037-D*	30/20	Isolated/Digital I/O	1 form A	110V	1A	30VA	<4 μ V	<100pA	10MHz	Connector	Yes	30 independent channels of 1-pole switching, 10 digital inputs, 10 digital outputs
7065												Hall Effect measurement buffer card

RF

7016A	Double 1 $\times$ 4	2 isolated switches	1 pole, 4 throw	30V	500mA	10VA	<6 μ V		2GHz	SMA	Yes	Optional 50 Ω termination
7017	Double 1 $\times$ 4	2 isolated switches	1 pole, 4 throw	30V	1A	10VA	<25 μ V		800MHz	SMA	Yes	10 ⁸ closures contact life.
7038	12	Three 1 $\times$ 4 multiplexers	1 pole, 1 of 4 tree	24V	10mA	10W @ 1.2GHz	<15 μ V		2GHz	75 Ω SMB	Yes	75 Ω unterminated receptacle

OPTICAL	No. of Channels	Fiber Type	Wavelength (nm)	Connector	Fiber Length
7090-8-4	1 $\times$ 8	Multimode fiber 62.5/125	780–1350	FC/SPC	1 m
7090-16-6	1 $\times$ 16	Single mode fiber (SMF-28) 9/125	1290–1650	FC/SPC	1 m

* Cards with a -D suffix feature D-sub connectors.

1.888.KEITHLEY (U.S. only)

www.keithley.com

KEITHLEY

A GREATER MEASURE OF CONFIDENCE

Selector Guide

Switch Cards for 7001, 7002

	No. of Channels	Card Config.	Contact Config.	Max. Voltage	Max. Current	Max. Power	Contact Potential	Max. Offset Current	Recomm. Frequency	Connection Type	CE	Comments
HIGH CURRENT												
7053	10	Multiplexer	2 form A	300V	5A	100VA	<1mV		1MHz	Screw term.		
HIGH VOLTAGE												
7154	10	Multiplexer	2 form A	1100V	500mA	10VA	<35μV		1MHz	Screw term.	Yes	
LOW CURRENT												
7152	4×5	Matrix	2 form A	200V	500mA	10VA	<20μV	<1pA	60MHz	Connector	Yes	
7153	4×5	Matrix	2 form A	1300V	500mA	10VA	<50μV	<1pA	60MHz	Connector	Yes	
7158	10	Multiplexer	1 form C	30V	100mA		<200μV	<1pA	1MHz	BNC	Yes	
LOW VOLTAGE												
7067	10	Multiplexer	4 form A	150V	350mA	10VA	<1μV		1MHz	Screw term.	Yes	4 wire resistance measurements
7168	8	Multiplexer	2 form A	10V	50mA		<30nV		1kHz	Screw term.	Yes	
THERMOCOUPLE												
7014	39	Multiplexer	2 form A	110V	1A	60VA	<1μV	<100pA	2MHz	Screw term.	Yes	Built-in cold junction ref.

Selector Guide

Switch Card Accessories

7001, 7002, 705, 706 Switch Card Accessories

Cables				Connectors	Adapters	Tools	
7011-C	7011-MTC-1	7011-MTC-2		7011-KIT-R			
7011-S				7011-ST			
7111-S							
7012-C	7011-MTC-1	7011-MTC-2		7011-KIT-R			
7012-S				7012-ST			
7013-C	7011-MTC-1	7011-MTC-2		7011-KIT-R			
7013-S				7013-ST			
7014	7401			7014-ST			
7015-C	7011-MTC-1	7011-MTC-2		7011-KIT-R			
7015-S				7015-ST			
7018-C	7011-MTC-1	7011-MTC-2		7011-KIT-R			
7018-S				7018-ST			
7019-C	7019-C-MTCL-2	7019-C-MTCL-2	7019-MTC-1	7011-KIT-R			
7020	7020-MTC-2			7011-KIT-R (incl.)			
7020-D				7020-DT			
7021	7011-MTC-1	7011-MTC-2		7011-KIT-R (incl.)			
7035	7035-MTC-2			7011-KIT-R (incl.)			
7036	7036-MTC-2			7011-KIT-R (incl.)			
7037-D				7037-DT			
7152	7152-MTC-2, -10	7152-TRX-10		7152-KIT 7152-MTR		7152-HCT 7074-HCT	7074-CIT
7153	7153-TRX						
7158	4801	4802-10	4803		4804		

1.888.KEITHLEY (U.S. only)

www.keithley.com

KEITHLEY

A GREATER MEASURE OF CONFIDENCE