

# 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
<b>HIGH DENSITY</b>												
7011-C	40	Multiplexer	2 form A	110V	1A	60VA	<1 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ V	<1nA	500kHz	Connector	Yes	Solid state switch for high reliability
7015-S	40	Multiplexer	2 form A	175V	34mA	0.3VA	<5 $\mu$ V	<1nA	500kHz	Screw term.	Yes	Solid state switch for high reliability
7018-C	28	Multiplexer	3 form A	110V	1A	60VA	<5 $\mu$ V	<100pA	2MHz	Connector	Yes	3 pole switching
7018-S	28	Multiplexer	3 form A	110V	1A	60VA	<5 $\mu$ V	<100pA	2MHz	Screw term.	Yes	3 pole switching
7035	36	Multiplexer	2 form A	60V	1A	30VA	<1 $\mu$ V	<100pA	10MHz	Connector	Yes	9 independent 1 $\times$ 4 multiplexers
7036	40	Isolated Switch	1 form A	60V	1A	30VA	<4 $\mu$ 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 $\mu$ 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 $\mu$ 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 $\mu$ V	<100pA	10MHz	Connector	Yes	30 independent channels of 1-pole switching, 10 digital inputs, 10 digital outputs
7065												See page 252 for details. Hall Effect measurement buffer card

## RF

7016A	Double 1 $\times$ 4	2 isolated switches	1 pole, 4 throw	30V	500mA	10VA	<6 $\mu$ V		2GHz	SMA	Yes	Optional 50 $\Omega$ termination
7017	Double 1 $\times$ 4	2 isolated switches	1 pole, 4 throw	30V	1A	10VA	<25 $\mu$ 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 $\mu$ V		2GHz	75 $\Omega$ SMB receptacle	Yes	75 $\Omega$ unterminated

## 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.

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<b>HIGH CURRENT</b>											
7053	10	Multiplexer	2 form A	300V	5A	100VA	<1mV	1MHz	Screw term.		
<b>HIGH VOLTAGE</b>											
7154	10	Multiplexer	2 form A	1100V	500mA	10VA	<35 $\mu$ V	1MHz	Screw term.	Yes	
7169A	20	Isolated switch	1 form C	500V	500mA	10VA	<30 $\mu$ V	2MHz	Connector	Yes	Position sensitive. Use with 7002 only.
<b>LOW CURRENT</b>											
7152	4 $\times$ 5	Matrix	2 form A	200V	500mA	10VA	<20 $\mu$ V	<1pA	60MHz	Connector	Yes
7153	4 $\times$ 5	Matrix	2 form A	1300V	500mA	10VA	<50 $\mu$ V	<1pA	60MHz	Connector	Yes
7158	10	Multiplexer	1 form C	30V	100mA		<200 $\mu$ V	<1pA	1MHz	BNC	Yes
<b>LOW VOLTAGE</b>											
7067	10	Multiplexer	4 form A	150V	350mA	10VA	<1 $\mu$ V		1MHz	Screw term.	Yes 4 wire resistance measurements
7168	8	Multiplexer	2 form A	10V	50mA		<30nV		1kHz	Screw term.	Yes
<b>THERMOCOUPLE</b>											
7014	39	Multiplexer	2 form A	110V	1A	60VA	<1 $\mu$ V	<100pA	2MHz	Screw term.	Yes Built-in cold junction ref.
<b>GENERAL PURPOSE</b> Can also be used with Models 705 and 706											
7166	10	Isolated switch	2 form A	300V	750mA	30VA	75 $\mu$ V typ.		3MHz	Connector	Yes Mercury wetted contacts

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