

## Model 3762 10-channel High Voltage Multiplexer Card

**Specifications** 

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## **SPECIFICATION CONDITIONS**

This document contains specifications information for the Model 3762 10-channel High Voltage Multiplexer Card. Specifications are the standards against which the Model 3762 is tested. Upon leaving the factory, the Model 3762 meets these specifications. Typical and characteristic values are nonwarranted, apply at 23 °C (73 °F), and are provided solely as useful information. Measurement accuracies are specified under these conditions: 23 °C ±5 °C, 5 percent to 70 percent relative humidity, non-condensing.

Category	Specification		
Channel configuration	1 x 10 double-pole multiplexer		
Contact configuration	2 Form A with user selectable shield or driven guard		
Connector type	Screw terminals, No. 16 AWG maximum wire size with .092 inch O.D. 33 conductors (wires) per card maximum		
Maximum signal levels	Voltage: 1000 V peak		
	Carry current: 1 A, peak or DC		
	Switching current: 0.5 A, RMS or DC		
	Switching power: 10 W		
Contact life	>10 <sup>8</sup> closures (cold switching); >1 x 10 <sup>6</sup> closures (at 1000 V/1 mA)		
Contact resistance	<200 m $\Omega$ initial, 2 $\Omega$ to rated life		
Contact potential	<35 μV per contact pair		
Channel-to-channel isolation	>10 <sup>10</sup> Ω, <10 pF		
Input isolation	Differential	>10 <sup>9</sup> Ω, <10 pF	
	Common mode	>10 <sup>9</sup> Ω, <150 pF	
Common mode voltage	1000 V peak		
Volt-hertz limit	$8 \times 10^7$		

Category	General specification		
Warm up	One hour to rated accuracies		
Actuation time	<2 ms, exclusive of mainframe		
Relay type	2 Form A dry reed		
Relay drive current	80 mA per relay (typical)		
Relay drive scheme	Direct		
Environment	Indoor use only		
	<b>Operating:</b> 0 °C to 50 °C (32 °F to 122 °F), 70% relative humidity up to 35 °C (95 °F); derate 3% relative humidity per °C, 35 °C to 50 °C, noncondensing		
	<b>Storage:</b> −25 °C to 65 °C (-13 °F to 149 °F)		
	Altitude: 0 to 2000 m (0 to 6562 feet) above sea level		
	Pollution degree: 2		
Dimensions	25.40 mm high x 166.12 mm wide x 263.40 mm long (1.00 in. x 6.54 in. x 10.37 in.)		
Weight	0.99 kg (2.2 lb)		
Safety	NRTL listed to UL61010-1 and CAN/CSA C22.2 NO. 61010-1-12; UL 61010-2-030 and CAN/CSA-22.2 NO.61010-2-030-12. Conforms with European Union Low Voltage Directive		
EMC	Conforms to European Union EMC Directive		