7703 32-channel, High Speed, Differential Multiplexer Module

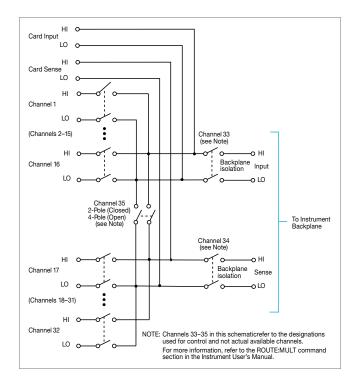
Datasheet



The 7703 plug-in module offers 32 channels of 2-pole or 16 channels of 4-pole multiplexer switching that can be configured as two independent banks of multiplexers. The non-latching reed relays provide high speeds and are designed for 300 volt, 500 mA; 10 VA. The relay closures are stored in onboard memory. The 7703 is ideal for RTD and thermistor temperature applications.

Key Features

- 32 channels for general purpose measurements
- Relay actuation time of less than 1ms for high-speed scanning
- Two- or four-wire measurement
- Two 50-pin female D-sub connectors are standard for secure hook-up and quick teardown



Specifications

Available Services

Ordering Information

7703-3Y-EW

7703

Multiplex one of 32 2-pole or one of 16 4-pole signal
into DMM.
rel
300 V DC or rms, 0.5 A switched, 10 W maximum.
>5×10 ⁴ operations at max. signal level. >10 ⁸ operations cold switching.
<1 Ω at end of contact life.
<+3 μ V typical per contact, 6 μ V max. <+3 μ V typical per contact pair, 6 μ V max.
<100 pA.
50 pin D-sub ×2.
20 mA per channel.
ny Two Terminals $>$ 10 $^{\rm 9}$ Ω , $<$ 200 pF.
ny Terminal and Earth $>10^9 \Omega, <400 \text{pF}.$
0 Ω Load) <-40 dB.
Source, 50 Ω Load) <0.35 dB below 1 MHz. <3 dB below 2 MHz.
age
300 V between any terminal and chassis.
32 channels of 2-pole relay input. All channels configurable to 4-pole.
Reed.
<1 ms.
afety
Operating Environment: Specified for 0° to 50°C. Specified to 40% R.H. at 35°C.
Storage Environment: -25° to 65°C.
EMC: Conforms to European Union EMC Directive.
Safety: Conforms to European Union Low Voltage Directive
RoHS: Conforms to European Union RoHS Directive
0.8 kg (1.75 lbs).
essories
23301163
50-pin D-Sub Male Shell Connector Kit, quantity 2
50-pin D-Sub Male Shell Connector Kit, quantity 2
50-pin D-Sub Male Shell Connector Kit, quantity 2 essories
50-pin D-Sub Male Shell Connector Kit, quantity 2 essories 50 Pin Male to Female D-sub Cable, 2 m (6.6 ft).



32-channel, High Speed, Differential Multiplexer

1-year factory warranty extended to 3 years from date



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