

7705 40-channel, Single-pole Control Module

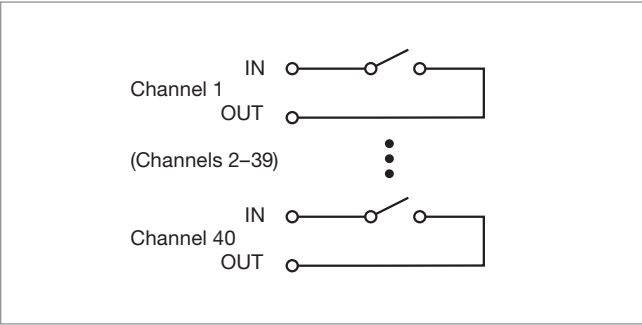
Datasheet



The 7705 plug-in module offers 40 channels of independent switching. These channels are designed to control power to the DUT and switching loads. They can also directly control light indicators, relays, etc.

Key Features

- 300 V, 2 A capacity
- Two 50-pin female D-sub connectors are standard for secure hook-up and quick teardown
- Relay closures stored in onboard memory



Specifications

Inputs	
Maximum Signal Level	300 VDC or rms, 2 A switched, 60 W (DC, resistive), 125 VA (AC, resistive).
Contact Life	No Load ¹ : 10 ⁸ closures. At Maximum Signal Levels: 10 ⁵ closures. 1. Minimum signal level 10 mV, 10 μ A.
Channel Resistance (per conductor)	<1 Ω .
Contact Potential	$\leq$ 4 μ V per contact.
Offset Current	<100 pA.
Actuation Time	3 ms.
Isolation	Channel to Channel: >10 ⁹ Ω , <50 pF. Common Mode: >10 ⁹ Ω , <100 pF.
Crosstalk (1 MHz, 50 Ω load)	<-35 dB.
Insertion Loss (50 Ω source, 50 Ω load)	<0.3 dB below 1 MHz, <3 dB below 10 MHz.
Common Mode Voltage	300 V between any terminal and chassis.

General

Relay Switch Configuration	40 independent channels of 1-pole switching. Isolated from internal DMM.
Contact Configuration	1 pole Form A.
Relay Type	Latching electromechanical.
Connector Type	Two 50-pin female D-sub connectors.
Environmental and Safety	
Operating Environment: Specified for 0° to 50°C. Specified to 80% 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	
Weight	0.45 kg (1 lb).

Supplied Accessories

7703-306A	50-pin D-Sub Male Shell Connector Kit, quantity 2
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Available Accessories

7705-MTC-2	50 Pin Male to Female D-sub Cable, 2 m (6.6 ft).
7788	50-pin D-Sub male connector kit, quantity 2
7790	50-pin male, 50-pin female, 25-pin male D-shell IDC connectors

Available Services

7705-3Y-EW	1-year factory warranty extended to 3 years from date of shipment
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Ordering Information

7705	40-channel, Single-pole Control Module
Warranty	1 year

Contact Information:

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