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7711 2 GHz 50 Ω RF Module

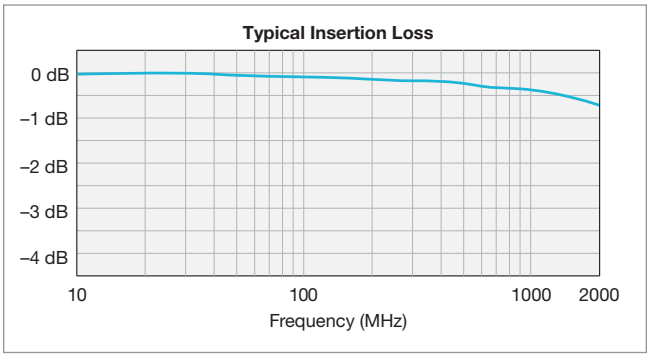
Datasheet

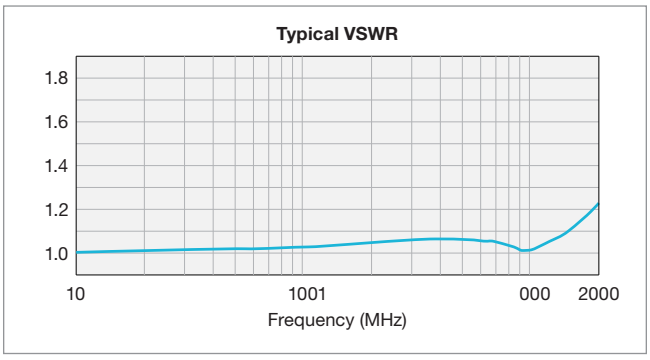


The 7711 plug-in module provides an economical, wideband signal routing solution that complements the DC/low frequency switching and measurement capability of the Integra Series 7700 Switch Modules. The 7711 offers dual 1×4 configurations and can interface with a wide range of external AC instruments, including oscilloscopes, pulse generators, and signal analysis tools. One channel in each multiplex bank is always closed to the corresponding OUT connector. All connections are easily accessible from the rear panel.

Key Features

- Signal routing performance to 2 GHz
- Switches up to 60 VDC
- Rear panel SMA connections
- Onboard switch closure counter
- Onboard S parameter storage





Specifications

Inputs (Channels 1–8)

Maximum Signal Level	**Any channel to any channel or chassis (1–8):** 30 Vrms (42 V peak for AC waveforms) or 60 VDC, 0.5 A.
Maximum Power	20 W per module, 10 W per channel (refer to 7711/7712 Manual PA-818 for measurement considerations).
Isolation	**Multiplexer to Multiplexer:** >1 GΩ. **Center to Shield:** >1 GΩ, <25 pF. **Channel to Channel:** >100 MΩ.
Contact Life	1×10^6 no load, 1×10^5 rated load (resistive load).
Contact Potential	<6 µV.
Contact Resistance	<0.5 Ω (initial), <1 Ω (end of life).
Rise Time	<300 ps (guaranteed by design).
Signal Delay	<3 ns.

General

Relay Type	High frequency electromechanical.
Contact Configuration	Dual 1×4 multiplexer, single pole four throw, Channels 1 and 5 are normally closed. **Note:** One channel in each multiplex bank is always closed to the corresponding OUT connector.
Close Channel	ROUTe:CLOSe allows a single channel in a multiplex bank to be closed. ROUTe:MULTiple:CLOSe allows two channels (one in each bank) to be closed at one time.
Open Channel	ROUTe:OPEN:ALL closes CH1 and CH5 to OUT A and OUT B respectively.
Actuation Time	<10 ms.
Connector Type	Ten external rear panel SMA connectors.
Mating Torque	0.9 N·m (8 in-lb).
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	0.5 kg (1.1 lb).

Available Accessories

7051-2	BNC Cable, male to male, 0.6 m (2 ft.)
7051-5	BNC Cable, male to male, 1.5 m (5 ft.)
7051-10	BNC Cable, male to male, 3.0 m (10 ft.)
7711-BNC-SMA	Male SMA to female BNC Cables (5), 0.15 m (0.5 ft.)
7712-SMA-1	SMA Cable, male to male, 1 m (3.3 ft.)
7712-SMA-N	Female SMA to Male N-Type Adapter
S46-SMA-0.5	SMA Cable, male to male, 0.15 m (0.5 ft.)
S46-SMA-1	SMA Cable, male to male, 0.3 m (1 ft.)
S46-SMA-1.7	SMA Cable, Male to Male, 0.58 m (1.7 ft.)

Available Services

7711-3Y-EW	1-year factory warranty extended to 3 years from date of shipment

Ordering Information

7711	2 GHz 50 Ω RF Module
Warranty	1 year

Contact Information:

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