

7712 3.5 GHz 50 Ω RF Module

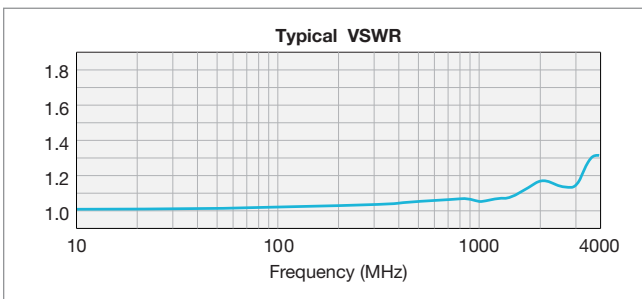
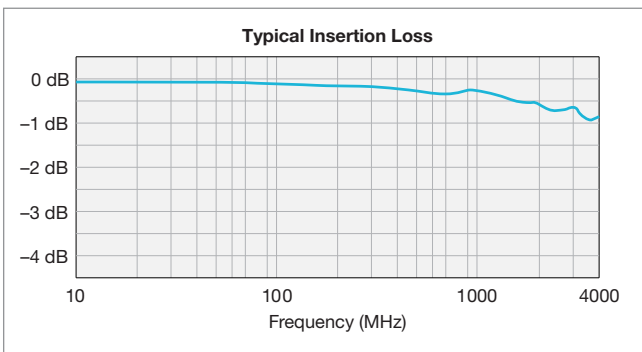
Datasheet



The 7712 plug-in module offers a 50W dual 1×4 multiplexer configuration with rear panel SMA 14 connectors. Multiple multiplexers can be cascaded to build scalable matrix and multiplexer systems for a large number of devices under test and RF source/measurement instruments. One channel in each multiplex bank is always closed to the corresponding OUT connector. The 3.5 GHz RF switching capability of the 7712 makes it ideal for testing wireless modules operating in the 2.4 GHz and lower industrial, scientific, and medical (ISM) radio bands.

Key Features

- 3.5 GHz bandwidth
- Dual 1×4 configuration
- 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 42 VDC, 0.5A.
Maximum Power	20 W per module, 10 W per channel (refer to 7711/7712 Manual PA-818 for measurement considerations).
Contact Life	5×10 ⁶ no load, 1×10 ⁵ rated load (resistive load).
Contact Potential	<12 μV.
Contact Resistance	<0.5 Ω (initial), <1 Ω (end of life).
Rise Time	<200 ps (guaranteed by design).
Signal Delay	<1.5 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).
Isolation	Multiplexer to Multiplexer: >1 GΩ. Center to Shield: >1 GΩ, <20 pF. Channel to Channel: >100 MΩ.

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

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

7712-3Y-EW	1-year factory warranty extended to 3 years from date of shipment
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Ordering Information

7712	3.5 GHz 50 Ω RF Module
Warranty	1 year

Contact Information:

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