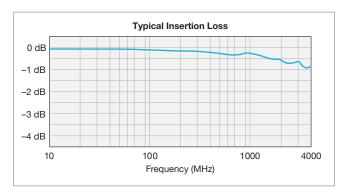
7712 3.5 GHz 50 Ω RF Module

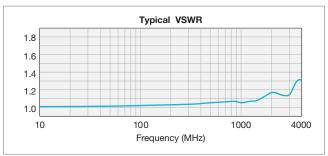


The 7712 plug-in module offers a 50W dual 1×4 multiplexer configuration with rear panel SMA 14 connectors. Multiple multiplexers can be cascaded to build scalable matrix and multiplexer systems for a large number of devices under test and RF source/measurement instruments. One channel in each multiplex 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, 0.5,A.
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 Configuratio	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. 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 G Ω . Center to Shield: >1 G Ω , <20 pF. Channel to Channel: >100 M Ω .
Environmental and S	afety
	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 Acce	essories
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 Serv	ices
7712-3Y-EW	1-year factory warranty extended to 3 years from date of shipment
Ordering Infor	mation
<u> </u>	
7712	3.5 GHz 50 Ω RF Module



Contact Information:

Australia* 1 800 709 465 Austria 00800 2255 4835 Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777 Belgium* 00800 2255 4835 Brazil +55 (11) 3759 7627 Canada 1 800 833 9200 Central East Europe / Baltics +41 52 675 3777 Central Europe / Greece +41 52 675 3777 Denmark +45 80 88 1401 Finland +41 52 675 3777 France* 00800 2255 4835 Germany* 00800 2255 4835 Hong Kong 400 820 5835 India 000 800 650 1835 Indonesia 007 803 601 5249 Italy 00800 2255 4835 Japan 81 (3) 6714 3010 Luxembourg +41 52 675 3777 Malaysia 1 800 22 55835 Mexico, Central/South America and Caribbean 52 (55) 56 04 50 90 Middle East, Asia, and North Africa +41 52 675 3777 The Netherlands* 00800 2255 4835 New Zealand 0800 800 238 Norway 800 16098 People's Republic of China 400 820 5835 Philippines 1 800 1601 0077 Poland +41 52 675 3777 Portugal 80 08 12370 Republic of Korea +82 2 6917 5000 Russia / CIS +7 (495) 6647564 Singapore 800 6011 473 South Africa +41 52 675 3777 Spain* 00800 2255 4835 Sweden* 00800 2255 4835 Switzerland* 00800 2255 4835 Taiwan 886 (2) 2656 6688 Thailand 1 800 011 931 United Kingdom / Ireland* 00800 2255 4835 USA 1 800 833 9200 Vietnam 12060128

> * European toll-free number. If not accessible, call: +41 52 675 3777



Find more valuable resources at TEK.COM

Copyright © Tektronix. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks or registered trademarks of their respective companies. 041618.SBG 1KW-00000-0

K