

MAJOR PRODUCTS



RFLIGHT COMMUNICATION ELECTRONIC CO., LTD.

NTSPDT Series High Frequency Multi Ports Switch Matrix

With the development of the testing technology, switch matrix has been introduced for the testing efficiency of the automatic testing system, in order to maximize the testing facility utilization the switch matrix is able to connect DUT and testing equipment in various combinations. Switch matrix is able to auto-route RF microwave signals between testing equipment and UUT (Unit Under Test) of ATE system. It can support consistent signal route, auto test execution, normally including signal adjustment.

The switch matrix can achieve very high testing accuracy and is very popular in engineering practices. Rflight use its very experienced development and delivery knowledge, has designed hundreds of customized switch matrices. Our skillful system engineers have carefully optimized the switch matrix according to customer specified applications. Supplying the customer applications with the best components specs, manufacturing process and complete tests, so we can guarantee product quality and performance.

NTSPDT series high frequency multi-port switch matrix is used for the physical connection between DUT test ports and Vector Network Analyzer test ports. It's able to expand 2 ports VNA into 9 ports, 12 ports, 18 ports or more ports testing equipment. Through program control it can selectively control test port's logic passage to achieve time division multi-port testing. For example for auto testing of the S parameter for TD-SCDMA multi-port base station antenna, the high frequency switch matrix is the key component to realize multi-port testing and it will eventually decide the accuracy of the test. To ensure the accuracy of the test, calibration is required for the equipment itself and the cable to eliminate the errors.

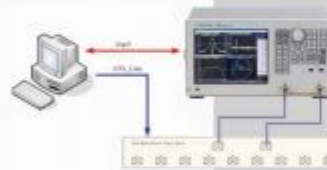


Key Technical Data:

- Working Freq: DC-4GHz
- Port Isolation: ≤ -90 dB
- Return Loss: ≤ -20 dB
- Insertion Loss: ≤ 1.5 dB
- Port to Port Amplitude Imbalance: ≤ 0.5 dB
- Port to port phase imbalance: $\leq \pm 3^\circ$
- Switching Speed: ≤ 20 ms
- Input Port: 2 pcs
- Output Port: 9pcs, 12pcs, 18pcs etc. (Build-in 50 ohm matching load)
- Test Connector: N-type female
- Control Method: LAN
- Power supply: 220V $\pm 10\%$, 50Hz

Application Environment:

Input Port1 and Port2 of 2*9 switch matrix connecting to Port1 and Port2 of the Network Analyzer (Keysight E5062A); Output Port1 to 8 of 2*9 switch matrix connecting to DUT antenna Port 1 to 8; Port 9 (cal) connecting to cal port of the DUT antenna.



Solutions Partner

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