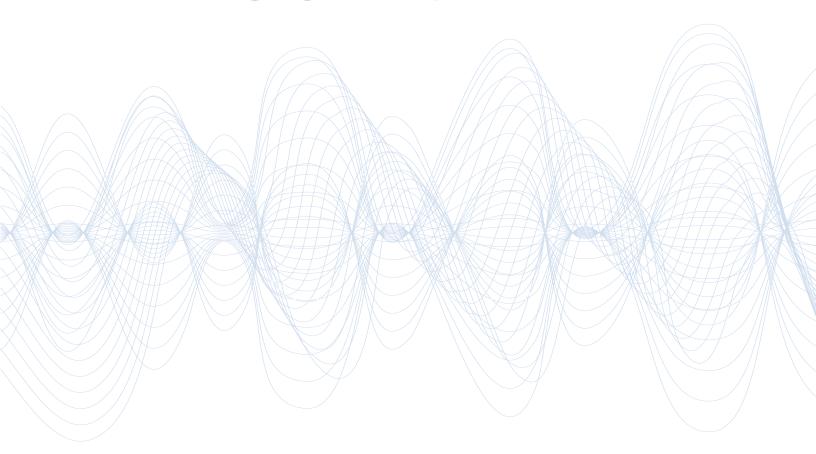
Miniature MS-Series Matrix





A DOVER COMPANY

MMS-Series | Miniature Multiple Switches



Features			
Configuration	Multiple Switches (bidirectional):		
	SPDT, Terminated SPDT, Terminated SP6T		
Operating Frequency	DC-26.5 GHz		
Impedance	50-Ohm		
Insertion Loss Repeatability	0.03 dB (max)		
Operating Life	SPDT: 10 Million Cycles (min) SP6T: 5 Million Cycles (min)		
Control Options	Ethernet (TCP/IP), Embedded		
	Web Server (HTTP) & USB port		

Application

The Miniature MS-series is an ideal switch solution for Test & Measurement requirements. It is equipped with high performance switches with 0.03 dB insertion loss repeatability across DC to 26.5 GHz, and a minimum of 10 Million Life Cycles for the SPDT and 5 Million Life Cycles for the SP6T.

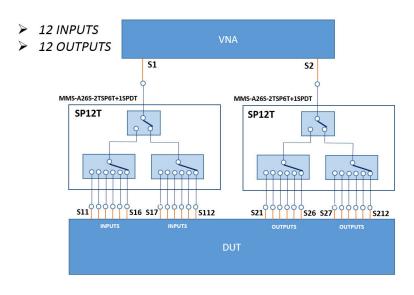
The miniature sized enclosure can be populated on the front panel with <u>maximum</u> of non-terminated and/or terminated:

- (8) SPDT Switches
- (2) SP6T Switches
- (1) SP6T + (4) SPDT Switches
- (2) SP6T + (1) SPDT Switches

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The MMS-series requires a 12Vdc / 2.5A power supply and the switches can be controlled remotely via TCP/IP Ethernet and HTTP-Server, which has a built-in "Sequencer" feature that allows the user to program up to ten 500-step sequence programs. It can also be controlled via USB port as a virtual RS-232 serial port.

Typical Application extending VNA ports



No RF cables are provided with MMS-Series

Specifications

I/O port Connector				
DC Connector	2.1 mm Center Pos. DC Socket			
RF Switch	SMA			
USB	USB Type A Receptacle			
Ethernet	RJ-45			
Switching Time	50 ms (incl. control delay)			
Operating Life (min)	10,000,000 (cold)			
Operating Temperature	0°C to +50°C			
Storage Temperature	-20°C to +70°C			
Operating Humidity	10-80% non-condensing			
Dimensions (max)	6.29" x 3.30" x 7.05"			
Weight	Varies per part number			

Remote Control Options				
Ethernet	TCP/IP, 10/100 BASE-T, manual or DHCP IP address assignment			
Embedded Web Server	HTTP (built-in webpage) Built-in Sequencer Feature with up to ten 500-step sequence programs			
USB Port	Operates as a virtual RS-232			
Commands/Syntax	Dow-Key SCPI commands			
Electrical Specifications				
Operating Voltage	12 V +/- 5%			
Operating Current	2.5 A (max) @ 12 Vdc			
RF Power	2W max. (hot-switching), see chart for cold-switching			

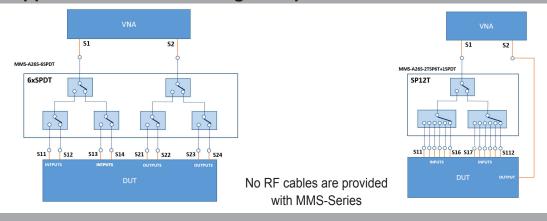
0.03 dB Insertion Loss Repeatability

RF Specifications

DC-26.5 GHz, Latching, Non-Terminated or Terminated SPDT					
Frequency [GHz]	VSWR Max.	Isolation Min. [dB]	Insertion Loss Max. [dB]	CW Power Max. [W]	
DC-4	1.15	85	0.42	30	
4-12.4	1.25	76	0.56	20	
12.4-20	1.35	67	0.69	16	
20-26.5	1.50	60	0.80	13	

		ו	DC-26.5 GHz, Lato	ching, Terminated SP6T
Frequency [GHz]	VSWR Max.	Isolation Min. [dB]	Insertion Loss Max. [dB]	CW Power Max. [W]
DC-4	1.20	100	0.42	30
4-12.4	1.35	80	0.56	20
12.4-20	1.45	70	0.69	16
20-26.5	1.70	65	0.80	13

Typical Applications for extending VNA ports



Part Number Selector

