





The M Series features SMA connectors and a frequency range of DC to 18 GHz.

This series is available with latching self cut-off or normally open functions with 50 ohm terminations.

RF Impedance: 50 ohms nominal

Temperature Range: -35°C to +85°C ambient **Operating Life:** 1,000,000 cycles min.

Switching Time: 15 mSec max. **Switching Sequence: Break Before Make**

Environmental: Designed in Accordance to MIL-DTL-3928 (Testing and

Operation Modes)

SPECIFICATIONS

Frequency	VSWR (max.)	Insertion Loss (dB max.)	Isolation (dB min.)		
DO 0 011					
DC-3 GHz	1.20	0.20	80		
3-8 GHz	1.30	0.30	70		
8-12.4 GHz	1.40	0.40	60		
12.4-18 GHz	1.50	0.50	60		

Actuator Current				
(typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	300mA	200mA	140mA
Latching	500mA	462mA	218mA	175mA

^{*} If reduced coil current is required, please contact Factory.

AVAILABLE OPTIONS

OPTION 2 OPTION 4 RF CONNECTORS VOLTAGE			OPTION 5 ACTUATOR	OPTION 6 FREQUENCY			OPTION 8 SPECIAL OPTIONS		
4 -	SMA	1 - 2 -	6 Vdc +/- 10% 12 Vdc +/- 10%	D -	Latching Self Cut-Off Diodes (USB Optional)	3 -	DC to 18 GHz	L - LL -	TTL (High) TTL (Low)
		3 -	24-30 Vdc	E-	Diodes, Indicators			1 -	Bracket
	OPTION 3		(USB Optional)		(USB Optional)		OPTION 7	F-	Flange
	TERMINALS	4 -	48 Vdc +/- 10%		Normally Open		POLARITY	P -	High Power Handling
1 -	Solder	5 -	110 Vac +/- 10%	G -	Diodes, Indicators	0 -	Not Applicable, USB	R-	Reset (Latching Only)
	Terminals	6 -	12-15 Vdc		(USB Optional)	8 -	Positive Common	C -	BCD
2 -	Circular Connector		(USB Optional)	Н-	Indicators (USB Optional)	9 -	Negative Common	Т-	Terminated
4 -	Sub Miniature	7 -	18-20 Vdc	J-	Diodes			U-	USB
	D-Shell	8 -	20-24 Vdc	K-	Standard				
	Connector								
5 -	USB								

Please Note: USB integration can only be applied to Voltage Options 12Vdc, & 15Vdc, Polarity Option # 3, and Terminals Option # 3.

The switch has a mini-USB socket on the enclosure interface which provides communication between switch and computers. Additionally, the enclosure also has a Molex socket for 12Vdc connection, which is required to power RF switch. The switch is accompanied with a CD driver, a 3 ft. USB cable and a 12 Vdc AC/DC adapter.

M		- 4				3		
Option 1 Series	Option 1 Number of Positions	Option 2 RF Connectors	Option 3 Terminals	Option 4 Voltage	Option 5 Actuator	Option 6 Frequency	Option 7 Polarity	Option 8 Special Options



M SERIES 1P3T to 1P6T MULTI POSITION 50 OHM TERMINATED SWITCH DC-18 GHz ◆ SMA

DC TERMINAL FUNCTION

		LATC	HING				NORMAL	LY OPEN		
	D	D	E	E			J, K	_	Н	G, H
PIN		w/ TTL		w/ TTL	J	К	w/ TTL	G		w/ TTL
1	NOTE #1	NOTE #1	NOTE #1	NOTE #1	N/A	N/A	N/A	C -/+	N/A	N/A
2	COM+/-	+A	COM+/-	+A	COM+/-	COM	+A	1 -/+	COM	+A
3	1-/+	-B	1-/+	-В	1 -/+	1	-B	2 -/+	1	-В
4	2-/+	1	2-/+	1	2 -/+	2	1	3 -/+	2	1
5	3-/+	2	3-/+	2	3 -/+	3	2	4 -/+	3	2
6	4-/+	3	4-/+	3	4 -/+	4	3	5 -/+	4	3
7	5-/+	4	5-/+	4	5 -/+	5	4	6 -/+	5	4
8	6-/+	5	6-/+	5	6 -/+	6	5	N/A	6	5
9	N/A	6	N/A	6	N/A	N/A	6	N/A	N/A	6
Α	N/A	N/A	COM	COM	N/A	N/A	N/A	СОМ	COM	COM
В	N/A	N/A	1	1	N/A	N/A	N/A	1	1	1
С	N/A	N/A	2	2	N/A	N/A	N/A	2	2	2
D	N/A	N/A	3	3	N/A	N/A	N/A	3	3	3
E	N/A	N/A	4	4	N/A	N/A	N/A	4	4	4
F	N/A	N/A	5	5	N/A	N/A	N/A	5	5	5
G	N/A	N/A	6	6	N/A	N/A	N/A	6	6	6

NOTE#1: RESET IF (R) OPTION IS SELECTED, OTHERWISE N/A

3.13"

2.38"

3.13"

SCHEMATICS

	Pages 139-143										
FIG.	25	26	25	26	29	29	30	29	29	30	
OUTLINE DRAWING DIMENSION "A"											

2.13"

2.63"

2.13"

DC TERMINAL VIEW

2.38"

FRONT VIEW

2.13"

2.63"

2.13"

