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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

**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.)
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
I			

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Normally Open	240mA	240mA	170mA	140mA
Latching	500mA	370mA	180mA	180mA

<sup>\*</sup> If reduced coil current is required, please contact Factory.

# AVAILABLE OPTIONS

	OPTION 2 RF CONNECTORS		OPTION 4 VOLTAGE		OPTION 5 ACTUATOR		OPTION 6 FREQUENCY		OPTION 8 SPECIAL OPTIONS
4 -	SMA	1 -	6 Vdc +/- 10%		Latching Self Cut-Off	3 -	DC to 18 GHz	L-	TTL (High)
		2 -	12 Vdc +/- 10%	D-	Diodes (USB Optional)			LL-	TTL (Low)
			(USB Optional)	E-	Diodes, Indicators (USB Optional)			1 -	Bracket
	OPTION 3	3 -	24-30 Vdc				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 (USB Optional)	0 -	Not Applicable, USB	R-	Reset (Latching Only)
	Terminals	6 -	12-15 Vdc	н-	Indicators	8 -	Positive Common	C -	BCD
2 -	Circular Connector		(USB Optional)	J-	Diodes (USB Optional)	9 -	Negative Common	U -	USB
4 -	Sub Miniature	7 -	18-20 Vdc	K-	Standard				
	D-Shell	8 -	20-24 Vdc	N -	Failsafe to Position 1 - Standard				
	Connector			R-	Failsafe to Position 1 - Diodes				
5 -	USB			S-	Failsafe to Position 1 - Diodes, Indicators				

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

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			



#### DC TERMINAL FUNCTION

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

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

### SCHEMATICS

	Pages 139-143														
FIG.	25	26	25	26	29	29	30	29	29	30	33	33	34	33	34

## **OUTLINE DRAWING DIMENSION "A"**

## DC TERMINAL VIEW

# **FRONT VIEW**

