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The *MM Series* contains 4P3T electromechanical switches designed for cell sites with three antennas each receiving or transmitting over 120 degrees or one-third of the coverage area for cellular telephone carrier or wireless applications.

This switch features three inputs and three outputs with one redundant port. The MM4 switch can replace three SPDT and SP3T switches or three transfer switches.

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

Actuator Current (typical)	12Vdc	12-15 Vdc	20-24 Vdc	24-30Vdc
Latching	150mA	150mA	120mA	100mA

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

AVAILABLE OPTIONS

OPTION 2 RF CONNECTORS		OPTION 4 VOLTAGE			OPTION 5 ACTUATOR			OPTION 6 FREQUENCY
4 - SMA	1 -	6 Vdc +/- 10%			Pulse Latchin	g	3 -	DC to 18 GHz
	2 -	12 Vdc +/- 10%	C -	Standard	F-	Indicators		
	3 -	24-30 Vdc	Υ-	Diodes	L-	Diodes, Indicators		
OPTION 3	6 -	12-15 Vdc						OPTION 7
TERMINALS	7 -	18-20 Vdc						POLARITY
4 - Sub Miniature	8 -	20-24 Vdc					0 -	Not Applicable
D-Shell							8 -	Positive Common
Connector							9 -	Negative Common

Please Note: USB option is not available for this series.

MM 3 Option 5 Option 1 Option 1 Option 2 Option 3 Option 6 Option 7 Option 4 Series Number of **RF Connectors** Terminals Voltage Actuator Frequency Polarity **Positions**



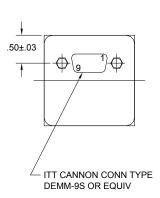
DC TERMINAL FUNCTION

	LATCHING				
PIN	C, Y	F, L			
1	P1-J1	P1-J1			
2	P1-R	P1-R			
3	P2-J2	P2-J2			
4	P2-R	P2-R			
5	P3-J3	P3-J3			
6	P3-R	P3-R			
7	N/A	Spare			
8	N/A	Spare			
9	СОМ	СОМ			
10	N/A	Spare			
11	N/A	Ind P1-R			
12	N/A	Ind P2-R			
13	N/A	Ind P3-R			
14	N/A	Spare			
15	N/A	Ind COM			

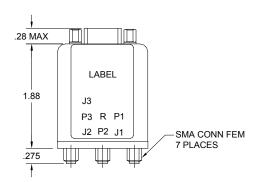
SCHEMATICS

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FIG.	38	38		

TOP VIEW



FRONT VIEW



BOTTOM VIEW

