MM SERIES
4P3T
MULTI POSITION SWITCH
DC-18 GHz ◆ SMA

Click Here to Request Quote

Ducommun

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

4 - SMA

OPTION 3 TERMINALS

4 - Sub Miniature D-Shell Connector

OPTION 4 VOLTAGE

1 - 6 Vdc +/- 10%
2 - 12 Vdc +/- 10%
3 - 24-30 Vdc
6 - 12-15 Vdc
7 - 18-20 Vdc
8 - 20-24 Vdc

OPTION 5 ACTUATOR

Pulse Latching

C - Standard
Y - Diodes
F - Indicators
L - Diodes, Indicators

OPTION 6 FREQUENCY

3 - DC to 18 GHz

OPTION 7 POLARITY

0 - Not Applicable
8 - Positive Common
9 - Negative Common

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

MM	4	-	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

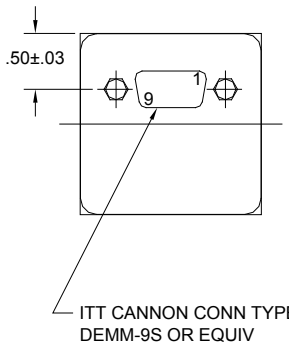
DC TERMINAL FUNCTION

	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	COM	COM
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

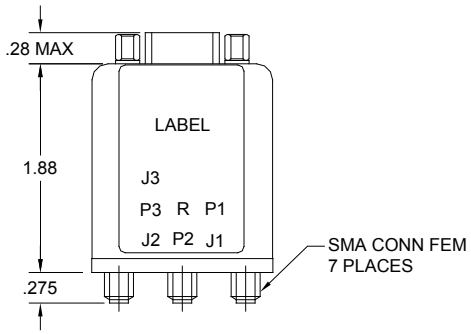
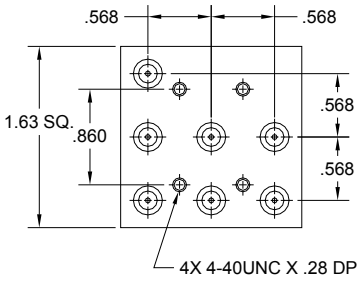
SCHEMATICS

	Pages 139-143	
FIG.	38	38

TOP VIEW



FRONT VIEW



BOTTOM VIEW