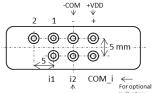
MC1

SPDT, SMA/K(2.92mm), DC-40GHz

The MC1 Series features SMA or K connectors and an operation frequency range of DC to 40GHz. This series can be either failsafe or latching type. Available options include TTL, self-cutoff or pulse latching, indicator, and coil suppression, etc.

Specifications			
Contact Material	Plated Au		
Switching Sequence	Break before Make		
Switching Time (max)	15msec		
Impedance	50Ω		
Temperature Range	–25°C to +65°C (Standard)		
	-55°C to +85°C ("e" option)		
Relative Humidity	5 to 85%		
O	1,000,000 (Standard)		
Operation Life (cycles)	5,000,000 ("h" option)		
Vibration (operating)	10G RMS, 20-2000Hz		
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec		
Weight (approx.)	70g		

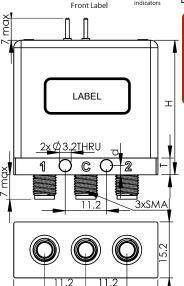
Voltage (VDC)		12	18	24	28
Commont (man)	Failsafe	190	136	98	83
Current (mA)					



Top Solder Pin Arrangements

Note: 1=V1 (or A1), 2=V2 (or A2). A2 (or V2) is unused for Failsafe.

Consult with the factory for the DSUB option.



Optional Indicator Specifications Max withstand voltage: 60V Max current capacity: 100n

Max current capacity: 100mA Max "ON" resistance: 16Ω

Note: +VDC and -C must be connected to operate.

H (max)	Solder Pin	DSUB
Standard	38	42
TTL	38	52
Indicator	51	62

T = 4.6 (SMA)

= 5.5 (K-type)

d = 2.5 (SMA)

= 2.75 (K-type)

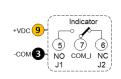
Mechanical drawings (unit: mm, tolerance +/-0.5mm).



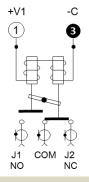
FAILSAFE

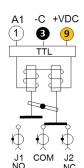
Standard					
Frequency Range (GHz)	Isolation (dB) (min)				
DC-6	1.20	0.20	70		
6-12	1.30	0.25	70		
12-18	1.40	0.40	60		
18-26.5	1.70	0.70	55		
26.5-32	1.90	0.80	50		
32-40	2.00	1.00	50		

High Performance Option ("h")					
Frequency Range (GHz)			Isolation (dB) (min)		
DC-1	1.1	0.10	90		
DC-6	1.2	0.15	80		
6-12	1.2	0.15	80		
12-18	1.3	0.25	70		
18-26.5	1.7	0.5	60		
26.5-32	1.9	0.5	55		
32-40	1.9	0.8	55		



Failsafe TTL



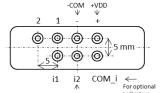


SPDT, SMA/K(2.92mm), DC-40GHz

Series features SMA The MC1 connectors and an operation frequency range of DC to 40GHz. This series can be either failsafe or latching type. Available options include TTL, selfcutoff or pulse latching, indicator, and coil suppression, etc.

Specifications			
Contact Material	Plated Au		
Switching Sequence	Break before Make		
Switching Time (max)	15msec		
Impedance	50Ω		
Temperature Range	–25°C to +65°C (Standard)		
	-55°C to +85°C ("e" option)		
Relative Humidity	5 to 85%		
O	1,000,000 (Standard)		
Operation Life (cycles)	5,000,000 ("h" option)		
Vibration (operating)	10G RMS, 20-2000Hz		
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec		
Weight (approx.)	70g		

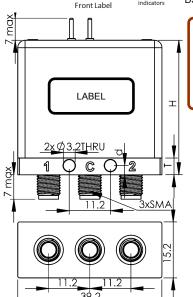
Voltage (VDC)		12	18	24	28
Current (mA)					
	Latching	200	119	90	115



Top Solder Pin Arrangements

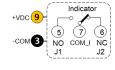
Note: 1=V1 (or A1), 2=V2 (or A2). A2 (or V2) is unused for Failsafe.

Consult with the factory for the DSUB option.



Max withstand voltage: 60V Max current capacity: 100mA Max "ON" resistance: 16Ω Note: +VDC and -C must be connected to operate.

Optional Indicator Specifications



H (max)	Solder Pin	DSUB
Standard	38	42
TTL	38	52
Indicator	51	62

T = 4.6 (SMA)= 5.5 (K-type)

d = 2.5 (SMA)= 2.75 (K-type)

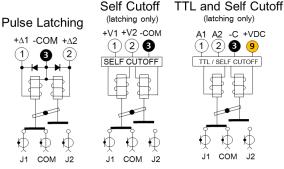
Mechanical drawings (unit: mm, tolerance +/-0.5mm).

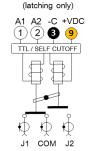




Standard					
Frequency Range (GHz)	Isolation (dB) (min)				
DC-6	1.20	0.20	70		
6-12	1.30	0.25	70		
12-18	1.40	0.40	60		
18-26.5	1.70	0.70	55		
26.5-32	1.90	0.80	50		
32-40	2.00	1.00	50		

High Performance Option ("h")					
Frequency Range (GHz)			Isolation (dB) (min)		
DC-1	1.1	0.10	90		
DC-6	1.2	0.15	80		
6-12	1.2	0.15	80		
12-18	1.3	0.25	70		
18-26.5	1.7	0.5	60		
26.5-32	1.9	0.5	55		
32-40	1.9	0.8	55		





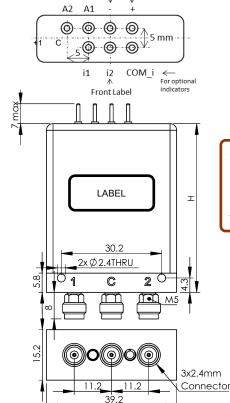
SPDT, U(2.4mm), DC-50GHz

The MC1-U50 Series features 2.4mm connectors and an operation frequency range of DC to 50GHz. This series can be either failsafe or latching type. Available options include TTL, self-cutoff or pulse latching, indicator, and coil suppression, etc.

Specifications			
Contact Material	Plated Au		
Switching Sequence	Break before Make		
Switching Time (max)	15msec		
Impedance	50Ω		
Tomporatura Bango	–25°C to +65°C (Standard)		
Temperature Range	-55°C to +85°C ("e" option)		
Relative Humidity	5 to 85%		
Operation Life (cycles)	1,000,000 (Standard)		
Vibration (operating)	10G RMS, 20-2000Hz		
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec		
Weight (approx.)	70g		

Voltage (VDC)		12	18	24	28
O	Failsafe	190	136	98	83
Current (mA)	Latching	200	119	90	115

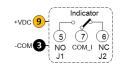
Solder Pins or DSUB 9







Optional Indicator Specifications Max withstand voltage: 60V Max current capacity: Max "ON" resistance: 100mA 16Ω Note: +VDC and -C must be connected to operate.



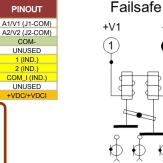
H (max)	Solder Pin	DSUB
Standard	38	42
TTL	38	52
Indicator	51	62

Mechanical drawings (unit: mm, tolerance +/-0.5mm).

FAILSAFE/LATCHING



Standard			
Frequency Range (GHz)	VSWR (max)	Insertion Loss (dB) (max)	Isolation (dB) (min)
DC-6	1.20	0.20	70
6-12	1.30	0.25	70
12-18	1.40	0.40	60
18-26.5	1.70	0.70	55
26.5-32	1.90	0.80	50
32-50	2.00	1.00	50

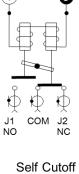


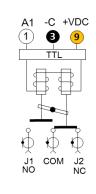
Pulse Latching

+Δ1 -COM +Δ2

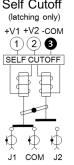
(2)

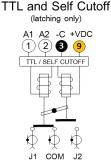
PINOUT





Failsafe TTL





MC1 -s (mini)

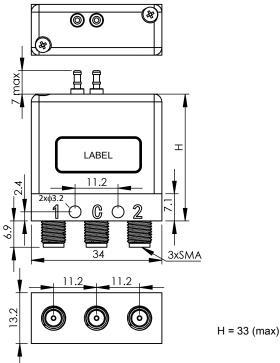
SPDT, SMA, short, DC-18GHz

The MC1 (-s) Series features SMA connectors and an operation frequency range of DC to 18GHz. This model option has a small profile. The series can be either failsafe or latching type. Available options include TTL, self-cutoff or pulse latching, indicator, and coil suppression, etc.

Specifications			
Contact Material	Plated Au		
Switching Sequence	Break before Make		
Switching Time (max)	15msec		
Impedance	50Ω		
Temperature Range	–25°C to +65°C (Standard)		
	-55°C to +85°C ("e" option)		
Relative Humidity	5 to 85%		
	1,000,000 (Standard)		
Operation Life (cycles)	5,000,000 ("h" option)		
Vibration (operating)	10G RMS, 20-2000Hz		
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec		
Weight (approx.)	70g		

Voltage (VDC)	12	18	24	28
Current (mA)	Failsafe	190	136	98	83
	Latching	200	119	90	115

 Contact company if reduced coil current is required. Other coil voltage options are available upon request.



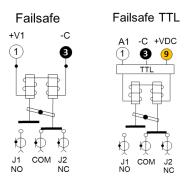
Mechanical drawings (unit: mm, tolerance +/-0.5mm).

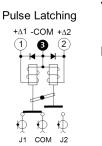
FAILSAFE/LATCHING

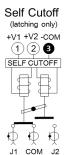


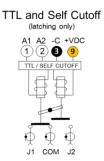
Standard			
Frequency Range (GHz)	VSWR (max)	Insertion Loss (dB) (max)	Isolation (dB) (min)
DC-6	1.20	0.20	70
6-12	1.30	0.25	70
12-18	1.40	0.40	60

Higher frequency ranges are also available upon request..







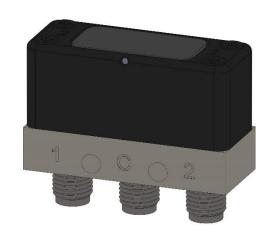


SPDT, SMA, DC-18GHz

Manual Operation

The MC1 (-s) Series features SMA connectors and an operation frequency range of DC to 18GHz. This model option has a small profile. The series can be either failsafe or latching type. Available options include TTL, self-cutoff or pulse latching, indicator, and coil suppression, etc.

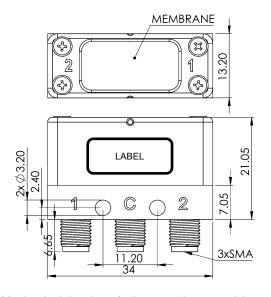
Specifications			
Contact Material	Plated Au		
Switching Sequence	Break before Make		
Switching Time (max)	15msec		
Impedance	50Ω		
T	–25°C to +65°C (Standard)		
Temperature Range	–55°C to +85°C ("e" option)		
Relative Humidity	5 to 85%		
Operation Life (cycles)	1,000,000 (Standard)		
Vibration (operating)	10G RMS, 20-2000Hz		
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec		
Weight (approx.)	70g		

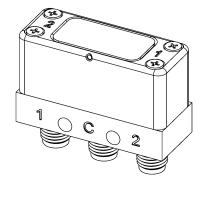


Standard			
Frequency Range (GHz)	VSWR (max)	Insertion Loss (dB) (max)	Isolation (dB) (min)
DC-6	1.20	0.20	70
6-12	1.30	0.25	70
12-18	1.40	0.40	60

Higher frequency ranges are also available upon request..

Manual Operation	Port 1 - C	Port 2 - C
Push Left Side	Open	Closed
Push Right Side	Closed	Open





Mechanical drawings (unit: mm, tolerance +/-0.5mm).