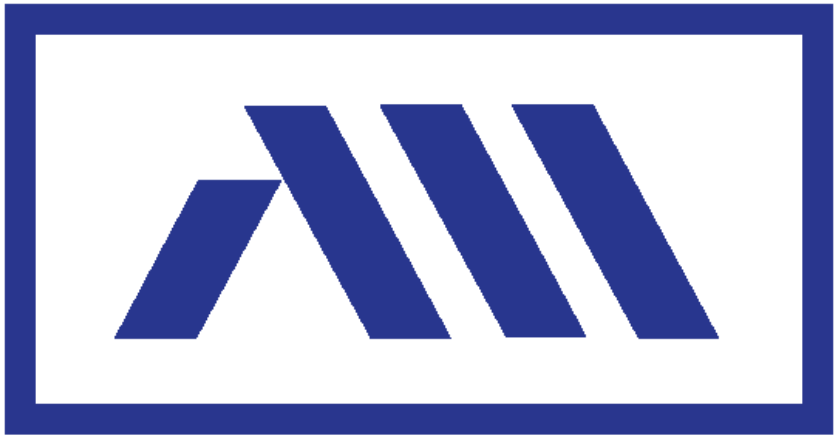

American Microwave Corporation

SOLID STATE SWITCHES

- DC to 40 GHz
- SPST to SP64T configurations

Any design can be optimized for specific frequency range, power handling, Insertion loss, isolation, intercept points, switching speed and VSWR

New – High Power Switches

Operating at L-Band, this SP9T solid state switch offers 1.6dB Insertion Loss, >45dB Isolation, better than 1.5:1 VSWR, TTL control and handles up to 100 Watts CW. This part features a dual directional coupler on the input and each of the 9 outputs has a coupled port (26dB).

Model SWN-2DR- STD is a SPDT solid state reflective switch capable of operating from 8-18 GHz and can handle 40W of CW power. The switch has a maximum Insertion Loss of 2 dB,VSWR of 2.0:1 maximum and an isolation of >40 dB. It has a maximum switching speed of 150 nSec. Switching rate is 500 KHz max. Input and output connectors are SMA (F) and solder pins
for TTL and power supplies. Size is 1.6”(L) X 1.72(W) X 0.62”(H).

SOLID STATE SWITCHES
• DC to 40 GHz
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Any design can be optimized for specific frequency range, power handling,
Insertion loss, isolation, intercept points, switching speed and VSWR

This list features some of our more popular Switches. If you do not find what you are looking for please contact:

Sales@americanmic.com

SPST	Freq Range	Insertion Loss	Isolation	VSWR	Switching Speed	Power Input	DC Power	Control
SWCH1K-DC40-SK	DC to 40 GHz	5.5 dB Typical, 6.8 dB Maximum	65 dB Typical, 55 dB Minimum	2.0:1 Typical, 2.2:1 Maximum	5 ns Typical, 6 ns Maximum	17 dBm Maximum	+8V to +15V @ 15 mA max -8V to -15V @ 40 mA max	TTL Logic “1”=on Standard
SWN-2184-1DR/DT	.5-18	Reflective: 2.5dB Absortive: 3.5 dB	0.5 Ghz to 18 GHz: 60 dB	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100 ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@70 mA max -5V@ 50 mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic “0”=on “1”=off
SWNND-2184-1DT	.5-20	3.0 db Max	65dB min	Absorptive In/Out: 2:0:1 Out/Off 2:0:1	Rise:10ns Max Fall:10 ns Max Delay:On 50 ns Max Delay:Off 50ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	5v @ 50 mA Maximum -5v @ 50 mA Maximum	TTL Logic “0”=on “1”=off
SWM-DJV-1DT-2ATT	DC-20	4.5 dB	10 MHz to 12 GHz: 60 dB 12 GHz to 20 GHz: 70 dB	In/Out: 2.0:1 Out/Off: 2.0:1	Rise 1 nS Typical, 2 nS Maximum Fall 1 nS Typical, 2 nS Maximum Delay On 12 nS Typical, 15 nS Maximum Delay Off 12 nS	(CW) +20 dBm (Standard)	-5V @ 25 mA Maximum	TTL Logic "0"=On, "1"=Off

					Typical, 15 nS Maximum			
SWNLC-DC20-1DT low cost high speed	DC-20	3.0 dB @ 20 GHz	40 dB minimum	Absorptive In/Out: 2:0:1 Out/Off 2:0:1	Rise: 5nSec Max Fall: 5nSec Max Delay On:25nSec Max Delay Off:25nSec Max	(CW)=18 dBm (std)	-5v @ 50 mA Maximum	TTL Logic “0”=on “1”=off
SP2D	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
SWN-2DR/DT-Standard	0.5-18	Reflective: 2.5dB Absortive: 3.5 dB	0.5 Ghz to 18 GHz: 60 dB Min	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@100 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL logic”0”=j1-j2 onTTL logic”1”=j1-j3 on
SP3T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
SWN-1140-3DR/DT-STANDARD	0.5-18	Reflective:2.75dB Absorptive3.75 db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@150 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
MSN-3DR/DT-05-STANDARD	0.5-18	Reflective:2.75dB Absorptive 3.75 db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@150 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
SP4T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
SWN-1140-4DR/DT-STANDARD	0.5-18	Reflective:3.0dB Absorptive 3.75 db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@200 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
MSN-4DR/DT-05-STANDARD	0.5-18	Reflective:3.0dB Absorptive 3.75 db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@200 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off

SP5T	Freq Range	Insertion Loss	Isolation	VSWR	Switching Speed	Power Input	DC Power	Control
SWN-1140-5DR/DT-STANDARD	0.5-18	Reflective:3.25dB Absorptive 4.0 db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@250 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
MSN-6DR/DT-05-STANDARD	0.5-18	Reflective:3.5dB Absorptive 4.25db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@250 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
SP6T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
SWN-1140-6DR/DT-STANDARD	0.5-18	Reflective:3.5dB Absorptive 4.25db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@300 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
MSN-6DR/DT-05-STANDARD	0.5-18	Reflective:3.5dB Absorptive 4.25db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@300 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
SP7T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
SWN-1140-7DR/DT-STANDARD	0.5-18	Reflective:3.5dB Absorptive 4.25db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@350 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
MSN-7DR/DT-05-STANDARD	0.5-18	Reflective:3.5dB Absorptive 4.25db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@350 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off

SP8T	Freq Range	Insertion Loss	Isolation	VSWR	Switching Speed	Power Input	DC Power	Control
MSN-8DR/DT-05-STANDARD	0.5-18	Reflective:4.0dB Absorptive 4.5db	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@400 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
SP10T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSN-10DR/DT-05-STANDARD	0.5-18	Reflective:4.5dB Absorptive 5.0dB	0.5-18 Ghz: 60 db	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 100 ns Max Delay:Off 100ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@500 mA max -5V@ 75mA max(Reflective100mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
MSR-10DR-925T-28	2-8	3.0 db max	50db min	2.0:1 max	Delay on:200 nsec max Delay off:200 nsec max	1W min (CW)	+5V@500mA Max -5V@100 mA Max	TTL Logic "0"=On, "1"=Off
SP12T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSN-12DR/DT-05-STANDARD	0.5-18	Reflective:5.0db max Absorptive 5.5db max	0.5-18 Ghz: 60 db Min	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:50ns Max Fall:50 ns Max Delay:On 150 ns Max Delay:Off 150ns Max	(CW)+20 dBm(Std) (High Speed) +10 DBm	+5V@600 mA max -5V@ 150mA max(Reflective200mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
SP16T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSN-16DR/DT-05-STANDARD	0.5-18	Reflective:6.5db max Absorptive 7.0db max	0.5-18 Ghz: 60 db Min	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:75ns Max Fall:75ns Max Delay:On 200 ns Max Delay:Off 200ns Max	(CW)+20 dBm	+5V@750mA Max -5V@200 mA Max	TTL Logic "0"=On, "1"=Off
MSN-16DR/DT-05-DEC-SP	0.5-18	Reflective:6.5db max Absorptive 7.0db max	0.5-18 Ghz: 60 db Min	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:75ns Max Fall:75ns Max Delay:On 200 ns Max Delay:Off 200ns Max	(CW)+20 dBm	+5V@750mA Max -5V@200 mA Max	TTL Logic "0"=On, "1"=Off
MSN-16DT-05-AKG-STANDARD	0.1-20	9.5dB max	110 dB	Reflective:	Rise:500ns Max, 300ns	+30dB (1 Watt)	+5V@750mA Max	TTL Logic

OPTION0120, B01MINUS12V			min	In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	typical Fall:500ns Max, 300ns typical		-12V@200 mA Max	"0"=On, "1"=Off
MSN-16DT-05-DEC-MP OPTION 30M18	30MHz-18	8.5dB max	60 db Min	2.0:1 Max	Delay:On 300 ns Max Delay:Off 300ns Max	(CW)+20 dBm	+5V@800mA Max -5V@200 mA Max	See logic table
SP22T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSR-22DR-925T-28	8-18	8-12 Ghz: 4.0dB max 12-18Ghz: 4.5 Max	40dB min	2.0:1 max	Delay:On 200 ns Max Delay:Off 200ns Max	3 Watt min(CW), 10 Watt peak 1 us	+15V@800mA Max -15V@100 mA Max	TTL Logic "0"=On, "1"=Off
SP32T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSN-32DR/DT-05-STANDARD	.5-18	Reflective:7.0db max Absorptive 7.5db max	0.5-18: 60dB	Reflective: In/Out: 2:0:1 Absorptive: In/Out: 2:0:1 Absorptive: Out/Off 2:0:1	Rise:15ns Max Fall:15 ns Max Delay:On 150 ns Max Delay:Off 150ns Max	(CW)+20 dBm(Std) (High Speed) +10 dBm	+5V@ 1.7 A max -5V@ 200mA max(Reflective200mA Max Absorptive/ non reflective	TTL Logic "0"=On, "1"=Off
SP48T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSN-48DT-05-DEC-MP OPTION 182105,B02, HI80DB	18-21.5	11.5 dB Max	80 dB min	2.2:1 Max	250 nSec Max	+20 dB (CW) Max	+5V@2.4 A Max -15V@250 mA Max	See logic table
SP65T	**Freq Range**	**Insertion Loss**	**Isolation**	**VSWR**	**Switching Speed**	**Power Input**	**DC Power**	**Control**
MSN-65DT-051-DEC-MP	100Mhz – 4GHz							