

SP8T PIN Diode Switches

HIGH FREQUENCY

Series MW 128T

- ▶ Solid State
- ▶ Frequency Band 0.5 to 18 GHz
- ▶ Low Insertion Loss
- ▶ High Isolation
- ▶ Integral TTL Driver
- ▶ Hermetically Sealed

GENERAL INFORMATION

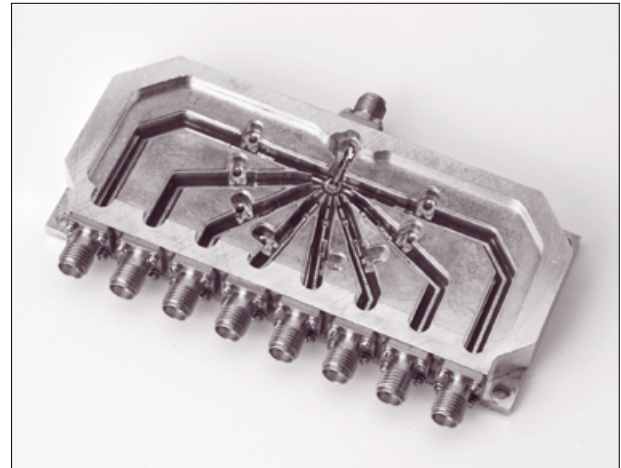
This series of SP8T switches is designed to give excellent performance for a wide range of military system applications in the 0.5 GHz to 18 GHz frequency range.

GENERAL SPECIFICATIONS

Power Handling Capability	100 mW
Operating Temperature Range	-55°C to +105°C
Storage Temperature Range	-65°C to +125°C
Reflective Switching Speed	30ns typical
Non-Reflective Switching Speed	30 ns typical

OPTIONS

- ▶ Low Video Leakage
- ▶ Switches Without Drivers
- ▶ Another Frequency Band
- ▶ Lower Insertion Loss Can Be Provided



HOW TO ORDER

See the variety of switches on the next page, and follow the example below:

MW 128 T28 - H - H - 0 - A - U1
1 - 2 - 3 - 4 - 5 - 6

LEGEND

1. Basic model number for an SP8T switch
2. Isolation (Reflective or Non-Reflective)
H - High, 60 dB L - Low, 40 dB
3. Switching Speed
Reflective Non-Reflective
H - High 25 ns 30 ns
L - Low 100 ns 150 ns
4. TTL Control Logic
0 - Logic "0" Low Loss
 Logic "1" Isolation
1 - Logic "0" Isolation
 Logic "1" Low Loss
5. Power Supply
 - a. Voltage
A - +5V -12V
B - +5V -15V
C - +12V -12V
D - +15V -15V
 - b. Current
High Speed +280 mA (+V)
 - 60 mA (-V)
Low Speed +320 mA (+V)
 - 220 mA (-V)
6. Case type

SPECIFICATIONS

MW 128T High Isolation/High Speed/Low Speed Switches

High Frequency Reflective Switches

Model Number	Frequency (GHz)																	
	0.5 to 1			1 to 2			2 to 4			4 to 8			8 to 12			12 to 18		
	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max
MW 128T51	1.5	60	2.0															
MW 128T12				1.8	60	2.0												
MW 128T24							2.0	60	2.0									
MW 128T48										2.4	60	2.0						
MW 128T82													3.0	60	2.0			
MW 128T18																3.7	60	2.0
MW 128T52	1.5	60	2.0	1.8	60	2.0												
MW 128T08							2.0	60	2.0	2.4	60	2.0						
MW 128T88													3.0	60	2.0	3.7	60	2.0
MW 128T28							2.0	60	2.0	2.4	60	2.0	3.0	60	2.0	3.7	60	2.0

High Frequency Non-Reflective Switches

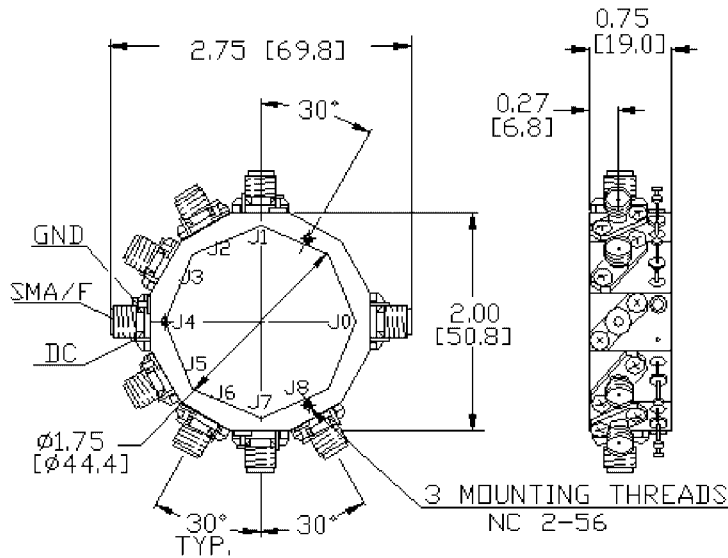
Model Number	Frequency (GHz)																	
	0.5 to 1			1 to 2			2 to 4			4 to 8			8 to 12			12 to 18		
	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max
MW 128TN51	1.8	60	2.0															
MW 128TN12				2.2	60	2.0												
MW 128TN24							2.4	60	2.0									
MW 128TN48										2.8	60	2.0						
MW 128TN82													3.4	60	2.0			
MW 128TN18																4.0	60	2.0
MW 128TN52	1.8	60	2.0	2.2	60	2.0												
MW 128TN08							2.4	60	2.0	2.8	60	2.0						
MW 128TN88													3.4	60	2.0	4.0	60	2.0
MW 128TN28							2.4	60	2.0	2.8	60	2.0	3.4	60	2.0	4.0	60	2.0

Note: Outline drawings of cases are depicted on pages following these tables.

Outline Drawings

HIGH & LOW SPEED SWITCHES

CASE U1



CASE U3

