

SP5T PIN Diode Switches

HIGH FREQUENCY

Series MW 125T

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

GENERAL INFORMATION

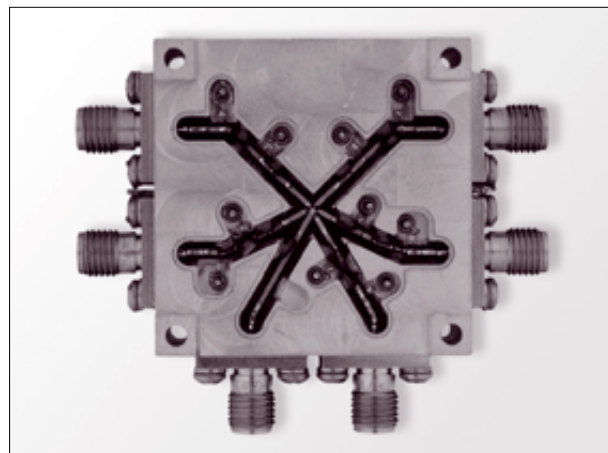
This series of SP5T switches is designed to give excellent performance for a wide range of military system applications in the 0.5 GHz to 18 GHz frequency range.

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 125 T28 - H - H - 0 - A - T
1 - 2 - 3 - 4 - 5 - 6

LEGEND

1. Basic model number for an SP5T switch
2. Isolation (Reflective or Non-Reflective)
H - High, 60 dB L - Low, 40 dB
3. Switching Speed
Reflective Non-Reflective
H - High 15 ns 25 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 +170 mA (+V)
- 40 mA (-V)
Low Speed +170 mA (+V)
- 140 mA (-V)
6. Case type

SPECIFICATIONS

MW 125T 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 125T51	1.4	60	2.0															
MW 125T12				1.5	60	2.0												
MW 125T24							1.8	60	2.0									
MW 125T48										2.2	60	2.0						
MW 125T82													2.8	60	2.0			
MW 125T18																3.5	60	2.0
MW 125T52	1.4	60	2.0	1.5	60	2.0												
MW 125T08							1.8	60	2.0	2.2	60	2.0						
MW 125T88													2.8	60	2.0	3.5	60	2.0
MW 125T28							1.8	60	2.0	2.2	60	2.0	2.8	60	2.0	3.5	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 125TN51	1.7	60	2.0															
MW 125TN12				1.8	60	2.0												
MW 125TN24							2.2	60	2.0									
MW 125TN48										2.6	60	2.0						
MW 125TN82													3.0	60	2.0			
MW 125TN18																3.5	60	2.0
MW 125TN52	1.7	60	2.0	1.8	60	2.0												
MW 125TN08							2.2	60	2.0	2.6	60	2.0						
MW 125TN88													3.0	60	2.0	3.5	60	2.0
MW 125TN28							2.2	60	2.0	2.6	60	2.0	3.0	60	2.0	3.5	60	2.0

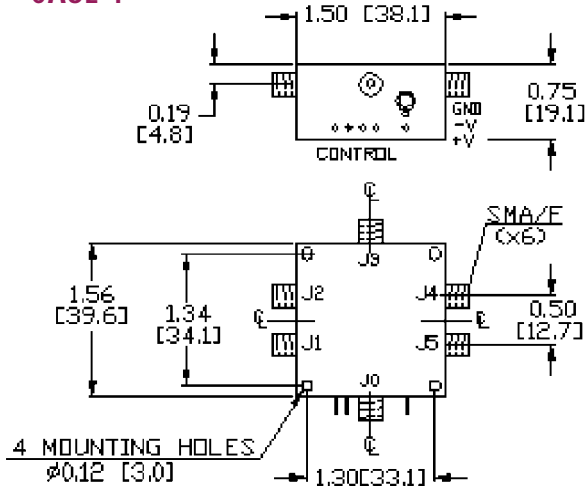
Note: Outline drawings of cases are depicted on pages following these tables.

Outline Drawings

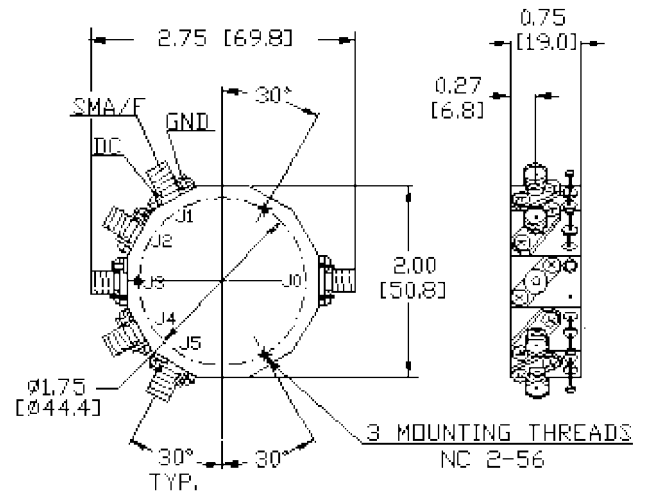
All dimensions are in inches and (mm). Drawings are in first angle projection.

HIGH ISOLATION/HIGH SPEED SWITCHES

CASE T



CASE T1



HIGH ISOLATION/LOW SPEED SWITCHES

CASE T1

