

SP3T PIN Diode Switches

HIGH FREQUENCY

Series MW 123T

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

GENERAL INFORMATION

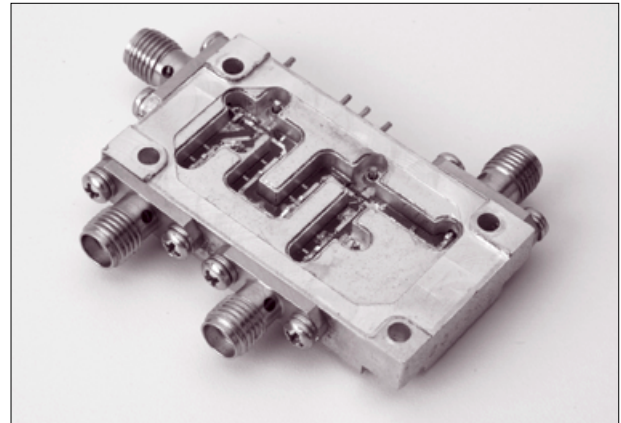
This series of SPST switches is designed to give excellent performance for a wide range of military system applications in the 0.5 GHz to 18 GHz frequency range.

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	25 ns typical
Non-Reflective Switching Speed	25 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 123 T28 - H - H - 0 - A - R4
1 2 3 4 5 6

= MW 123T28HH0AR4

LEGEND

1. Basic model number for an SP3T switch
2. Isolation (Reflective or Non-Reflective)
H - High, 60 dB L - Low, 40 dB
3. Switching Speed
Reflective Non-Reflective
H - High 20 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 +100 mA (+V)
 - 40 mA (-V)
Low Speed +130 mA (+V)
 - 90 mA (-V)
6. Case type

SPECIFICATIONS

MW 123T 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 123T51	1.2	60	1.8															
MW 123T12				1.5	60	1.8												
MW 123T24							1.6	60	1.8									
MW 123T48										2	60	2.0						
MW 123T82													2.4	60	2.0			
MW 123T18																2.8	60	2.0
MW 123T52	1.2	60	1.8	1.5	60	1.8												
MW 123T08							1.6	60	1.8	2	60	2.0						
MW 123T88													2.4	60	2.0	2.8	60	2.0
MW 123T28							1.6	60	1.8	2	60	2.0	2.4	60	2.0	2.8	60	2.0

High Frequency Non-Reflective Switches

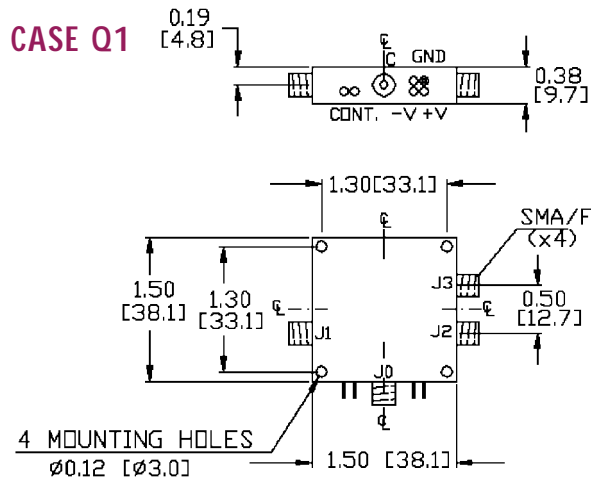
Model Number	Frequency (GHz)																	
	0.5 to 1			1 to 2			2 to 4			4 to 8			8 to 12			12 to 18		
	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max	IL max (dB)	Isolation min (dB)	VSWR max
MW 123TN51	1.6	60	2.0															
MW 123TN12				1.9	60	2.0												
MW 123TN24							2	60	2.0									
MW 123TN48										2.4	60	2.0						
MW 123TN82													2.8	60	2.0			
MW 123TN18																3.2	60	2.0
MW 123TN52	1.6	60	2.0	1.9	60	2.0												
MW 123TN08							2	60	2.0	2.4	60	2.0						
MW 123TN88													2.8	60	2.0	3.2	60	2.0
MW 123TN28							2	60	2.0	2.4	60	2.0	2.8	60	2.0	3.2	60	2.0

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

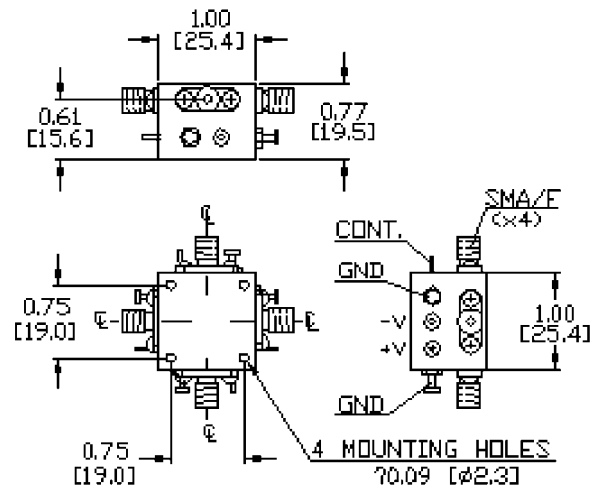
Outline Drawings

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

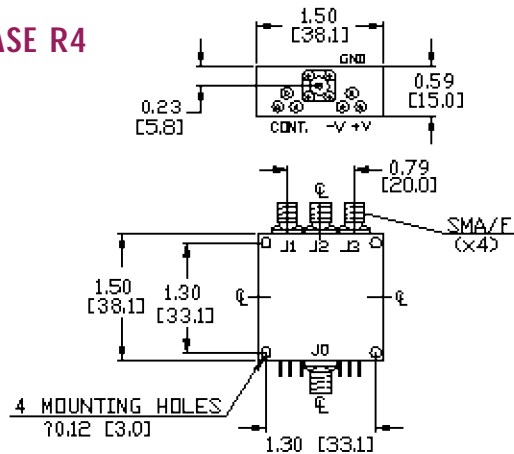
HIGH ISOLATION/HIGH SPEED SWITCHES



CASE R1

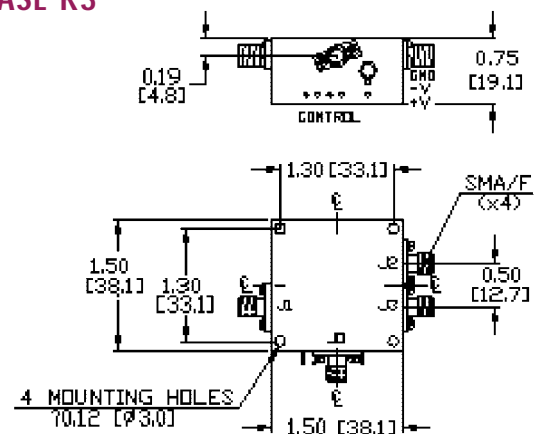


CASE R4



HIGH ISOLATION/LOW SPEED SWITCHES

CASE R3



CASE R5

