

ABSORPTIVE SWITCH

MVE9221

Solid-State, SPDT

Features

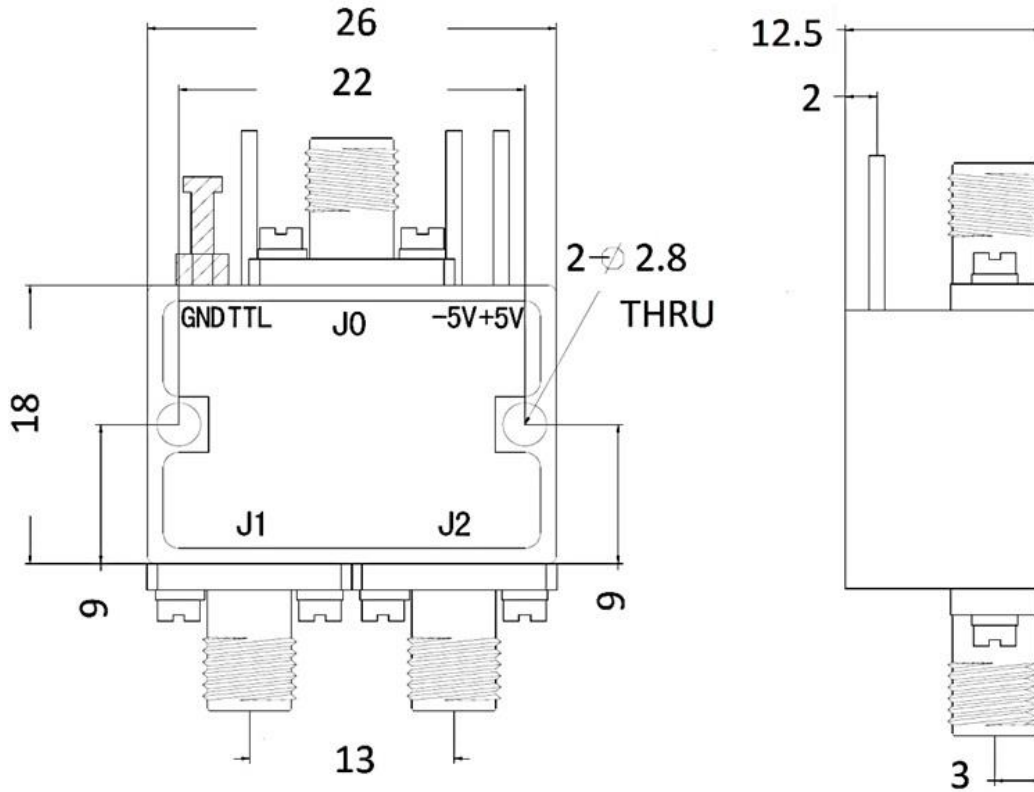
- ✓ Wide Band Operation 2-8GHz
- ✓ TTL Compatible driver include
- ✓ Low Insertion Loss / High Isolation
- ✓ Customization available upon request

SPECIFICATIONS

RF CHARACTERISTICS						
FREQUENCY RANGE	Min.	Typ.	Max.	Min.	Typ.	Max.
	2-4GHz			4-8GHz		
VSWR		1.3:1	1.5:1		1.3:1	1.5:1
INSERTION LOSS MAX.		1.0dB	1.2dB		1.3dB	1.5dB
INSERTION LOSS TEMP. COEFFICIENT dB/°C		0.003			0.003	
ISOLATION MIN.	80dB	90dB		80dB	90dB	
RF INPUT POWER (W)			1W			1W
DC POWER DISSIPATION (W)		0.5			0.5	
ELECTRICAL CHARACTERISTICS						
0.1 dB Compression P0.1dB		30 dBm			30 dBm	
IIP3		43 dBm			44 dBm	
SWITCHING SPEED			100 ns			100 ns
BIASING (+5V / -5V)	80mA/50mA MAX.					
MECHANICAL CHARACTERISTICS						
CONNECTORS	SMA Female					
MATERIAL / FINISHING	Aluminum / Gold Plating					
ENVIRONMENT SPECIFICATIONS						
OPERATIONAL TEMPERATURE	-40°C~+85°C					
STORAGE TEMPERATURE	-50°C~+105°C					
ALTITUDE	30,000 ft. (Epoxy Seal Controlled environment)					
(OPTIONAL)	60,000 ft. 1.0psi min (Hermetically Seal Uncontrolled environment)					
VIBRATION	25g rms (15 degree 2KHz) endurance, 1 hour per axis					
HUMIDITY	100% RH at 35c, 95% RH at 40°C					
SHOCK	20G for 11msc half sin wave, 3 axis both directions					

Tolerance:±0.5mm

OUTLINE DRAWING: (Unit: mm)



TRUTH TABLE	
Control Input TTL	State
1	J0-J1
0	J0-J2
Control Pin Customization available upon request	

Absolute Max. Ratings	Design to meet the Spec.
Biasing	+5V±10%/-5V±10%
TTL Control Voltage	0-0.8V/2.8-5V
Operating Temp.	-40°C~+85°C
Storage Temp.	-50°C~+105°C

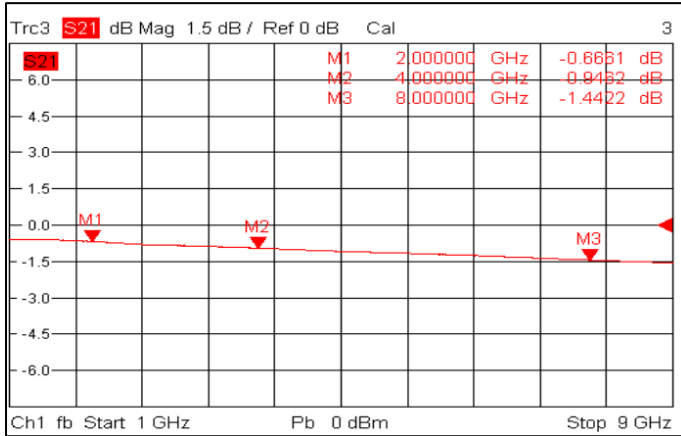
NOTES:

1. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
2. CUSTOMER OUTLINE DRAWING FOR REFERENCE ONLY

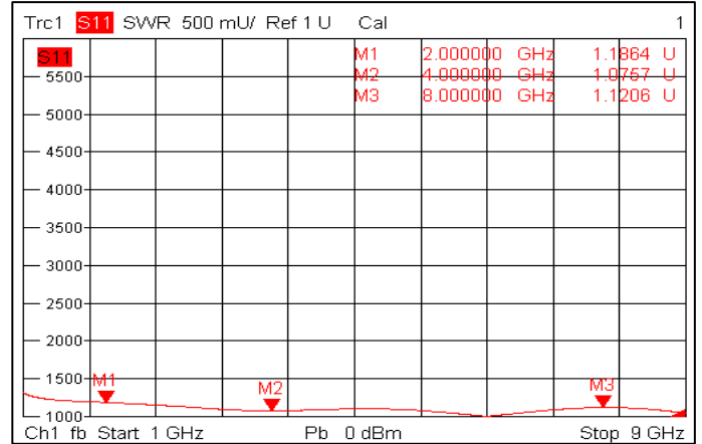


Typical Test Result

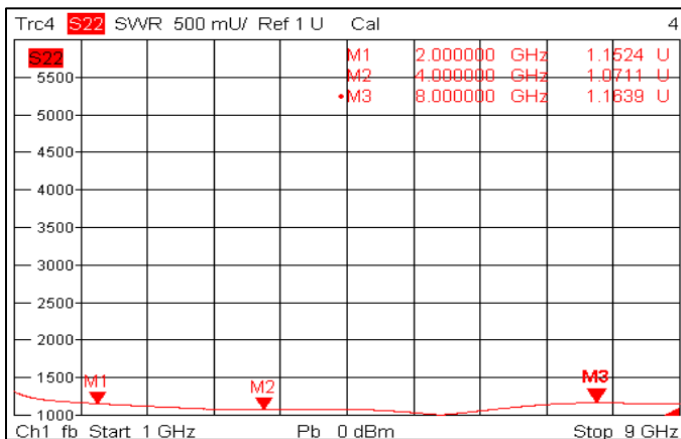
Insertion Loss @+25°C



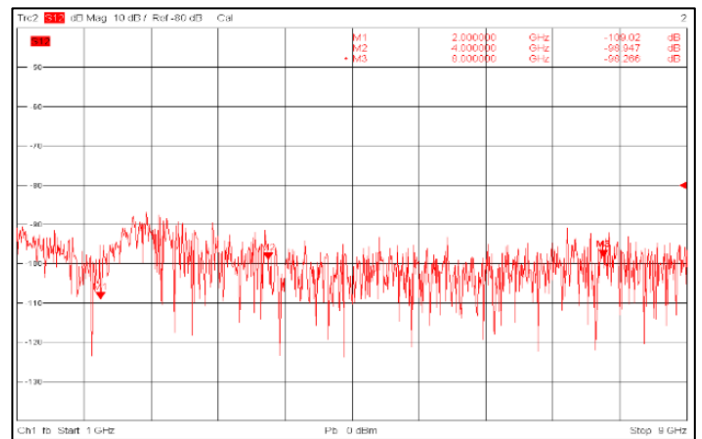
Input VSWR @+25°C



Output VSWR @+25°C



Isolation @+25°C



IIP3

