

ABSORPTIVE SWITCH

Solid-state, SP8T

Features

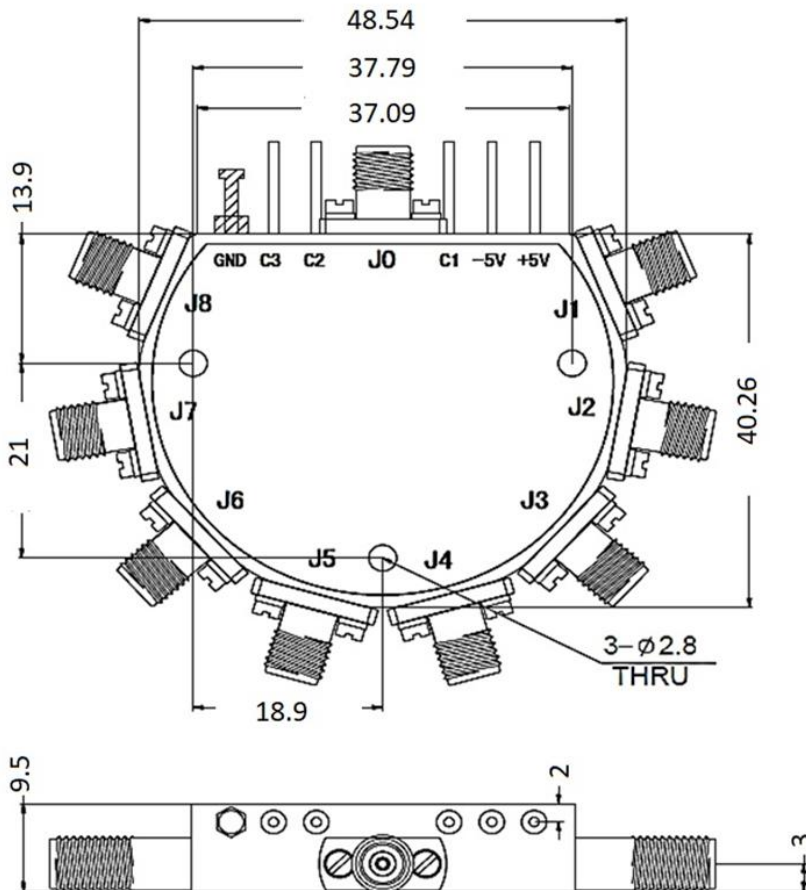
- ✓ Ultra Wide Band Operation 0.02-18GHz
- ✓ TTL compatible driver included
- ✓ Fast Switching Speed
- ✓ Low Insertion Loss and High Isolation
- ✓ Customization available upon request

Specification

RF CHARACTERISTICS			
FREQUENCY RANGE	0.02-6 GHz	6-12 GHz	12-18 GHz
VSWR Max.	1.8	1.8	2.0
ISOLATION MIN.	60dB	75dB	60dB
INSERTION LOSS MAX.	4.5 dB	5.5 dB	6.0 dB
I.L. Temperature Coefficient	0.003dB/ °C		
ELECTRICAL CHARACTERISTICS			
RF INPUT POWER	30dBm		
DC POWER DISSIPATION	1.5W		
IIP3	40dBm		
0.1dB Compression P0.1dB	30dBm		
SWITCHING SPEED	250 ns		
BIAS CURRENT (+5V / -5V)	350 / 50 mA		
MECHANICAL CHARACTERISTICS			
Input /Output Connector	SMA-Female		
Finishing	Gold Plating		
Material	Aluminum		
Seal	Hermetically Sealed (optional)		
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 11msec half sine wave, 3 axis both directions

OUTLINE DRAWING: All Dimensions in mm



Absolute Max. Ratings		Design to meet the Spec.
Biassing	+5V±10%-5V±10%	
TTL Control Voltage	0-0.8V/2.8-5V	

TRUTH TABLE			
Control		Input	Signal Path State
		TTL	
C3	C2	C1	
0	0	0	J0-J1
0	0	1	J0-J2
0	1	0	J0-J3
0	1	1	J0-J4
1	0	0	J0-J5
1	0	1	J0-J6
1	1	0	J0-J7
1	1	1	J0-J8

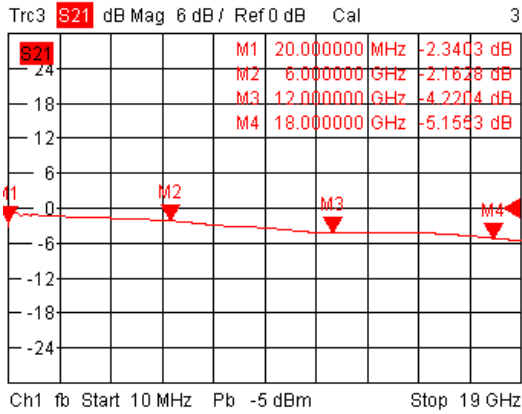
Control Pin
Customization available upon request

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

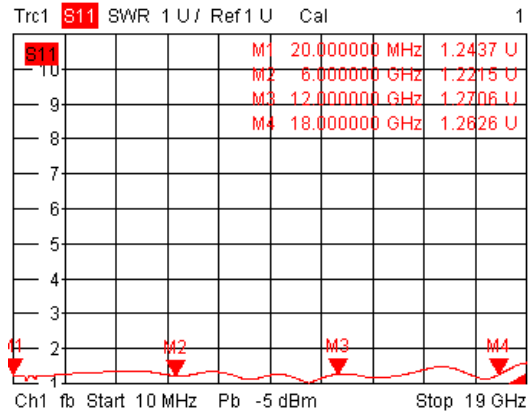


Typical Test Result

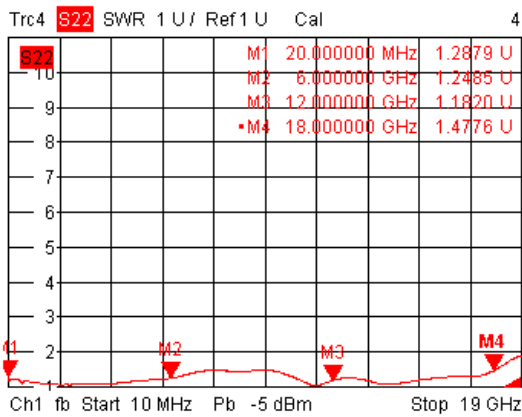
Insertion Loss @ +25°C



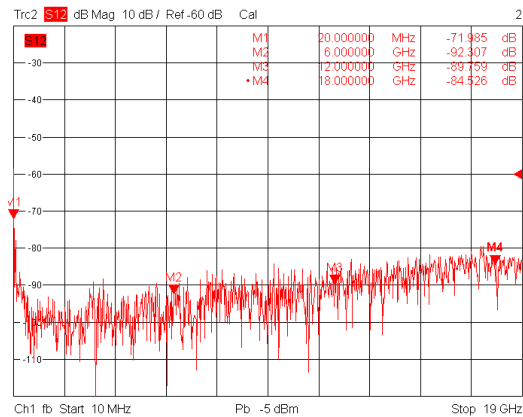
Input VSWR @ +25°C



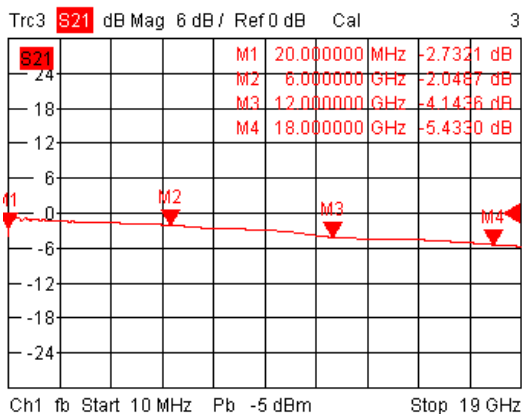
Output VSWR @ +25°C



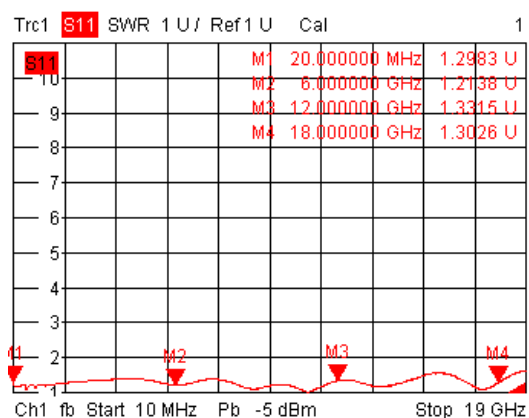
Isolation @ +25°C



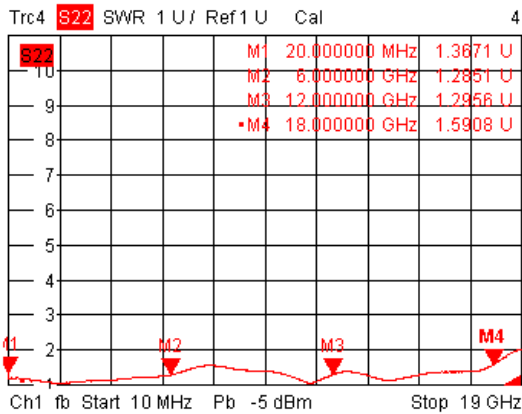
Insertion Loss @ -40°C



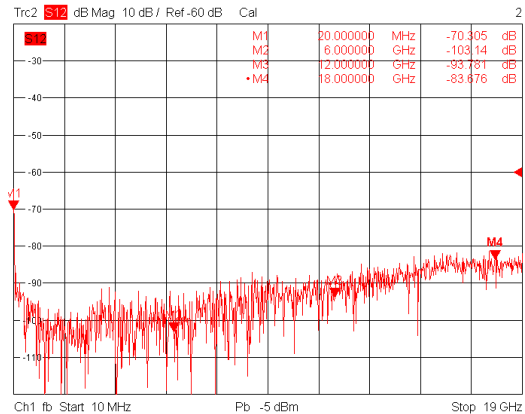
Input VSWR @ -40°C



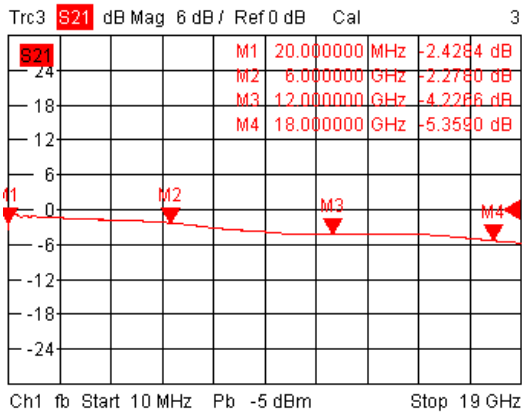
Output VSWR @ -40°C



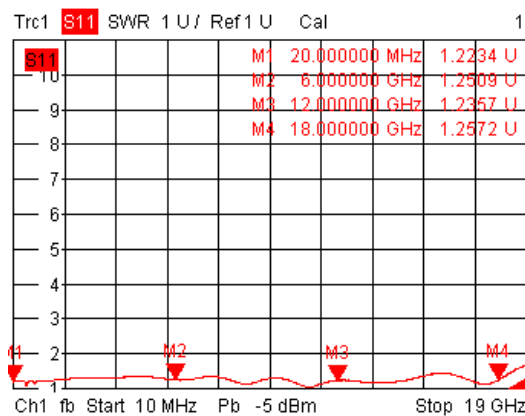
Isolation @ -40°C



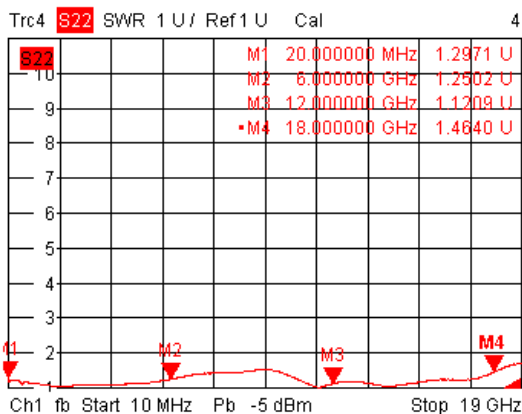
Insertion Loss @ +85°C



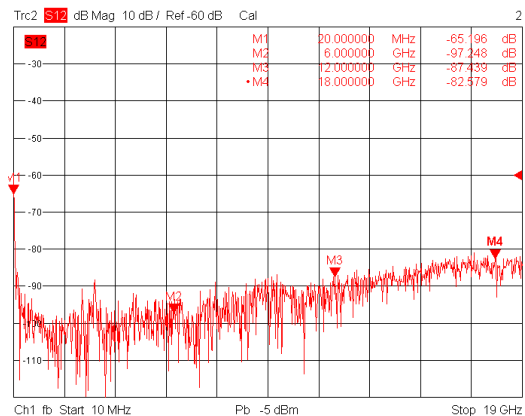
Input VSWR @ +85°C



Output VSWR @ +85°C



Isolation @ +85°C



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