

Features

- Design : SP12T Absorptive
- Ultra Wide Band
- Low Insertion Loss 14 dB
- Fast Switching Speed
- RoHS and REACH Compliant

Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Freq. Range	GHz	18		40
Input Power	W		0.2	
Insertion Loss	dB		12	14
VSWR	:1			3
Isolation	dB	40		
Switching speed	nsec			100
Rise / Fall time	nsec			
DC Biasing (+5V)	mA		300	
DC Biasing (-5V)	mA		100	
Control Interface			PIN	
Control Type			TTL	
Impedance	Ohms		50	
Operating Temp.	°C	-45		+85

Special Requirements

Note

- Electronic Specification Note : Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature ;
- Switching speed is 50% TTL to 90% RF (T- ON) and 50% TTL to 10% RF (T- OFF) ;
- Rise / Fall time : 10% RF to 90% RF and 90% RF to 10% RF ;

Mechanical Specifications

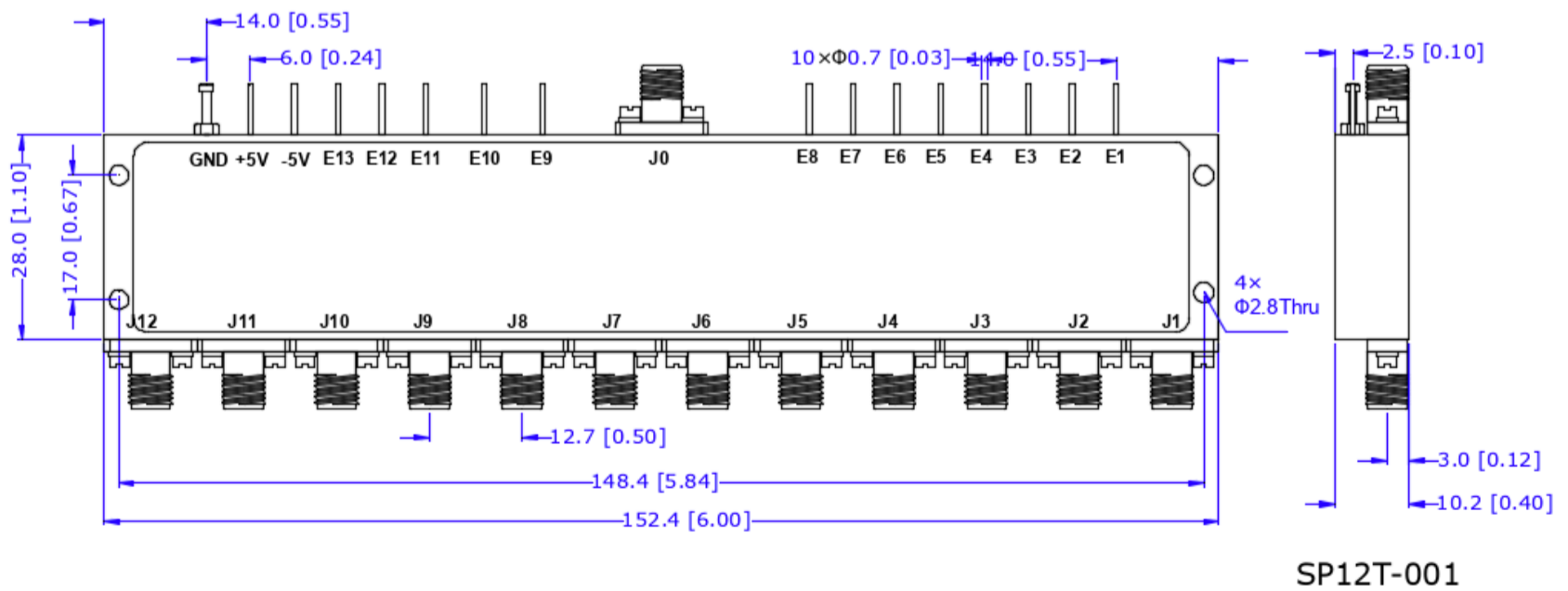
Dimension L*W*H	152.4*28*10.2 mm
Input Connector	2.92mm-Female Stainless Steel
Output Connectors	2.92mm-Female Stainless Steel
Weight	122 g
Finishing	Nickel Plated
Environment	Nominal
RoHS / REACH Compliant	✓

Truth Table

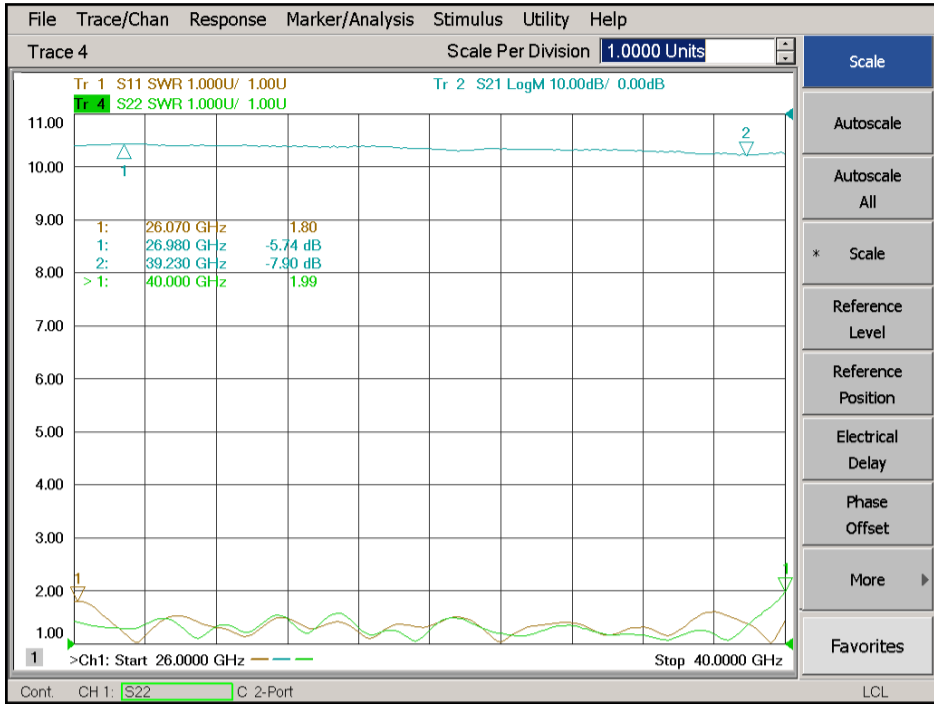
Control Input TTL													Signal Path State
E13	E12	E11	E10	E9	E8	E7	E6	E5	E4	E3	E2	E1	
0	1	1	1	1	1	1	1	1	1	1	1	0	J0-J1
0	1	1	1	1	1	1	1	1	1	1	0	1	J0-J2
0	1	1	1	1	1	1	1	1	1	0	1	1	J0-J3
0	1	1	1	1	1	1	1	1	0	1	1	1	J0-J4
0	1	1	1	1	1	1	1	0	1	1	1	1	J0-J5
0	1	1	1	1	1	1	0	1	1	1	1	1	J0-J6
1	1	1	1	1	1	0	1	1	1	1	1	1	J0-J7
1	1	1	1	1	0	1	1	1	1	1	1	1	J0-J8
1	1	1	1	0	1	1	1	1	1	1	1	1	J0-J9
1	1	1	0	1	1	1	1	1	1	1	1	1	J0-10
1	1	0	1	1	1	1	1	1	1	1	1	1	J0-11
1	0	1	1	1	1	1	1	1	1	1	1	1	J0-12

- TTL Control Voltage : High (1) : 2.8 to 5V
- TTL Control Voltage : Low (0) : 0 to 0.8V
- Low Power cold Switching

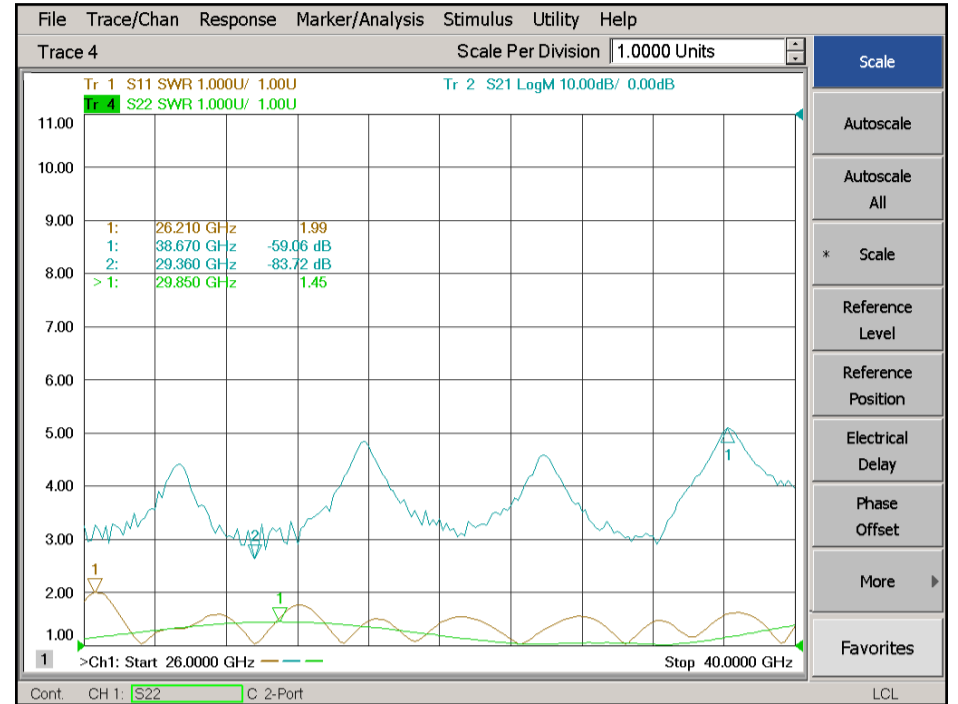
CAD Drawing



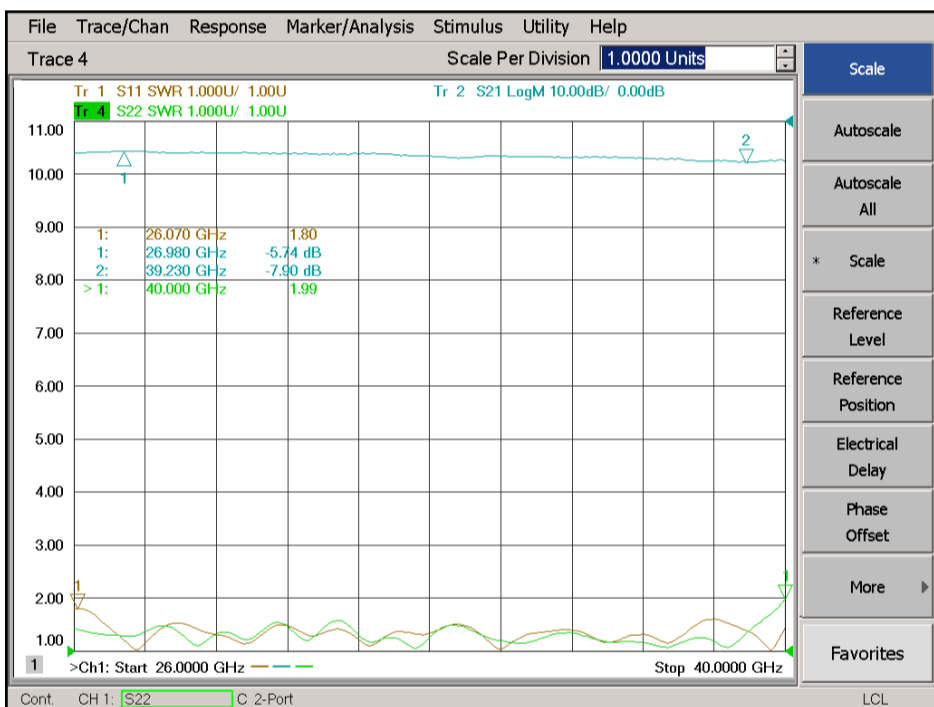
J0 - J1



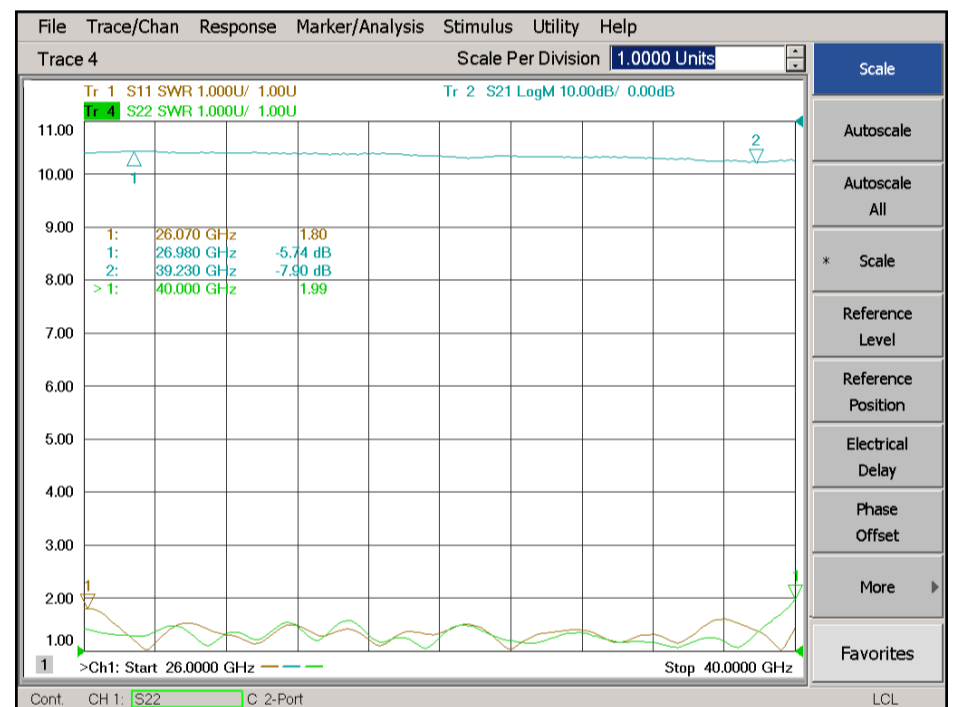
J1 Isolation



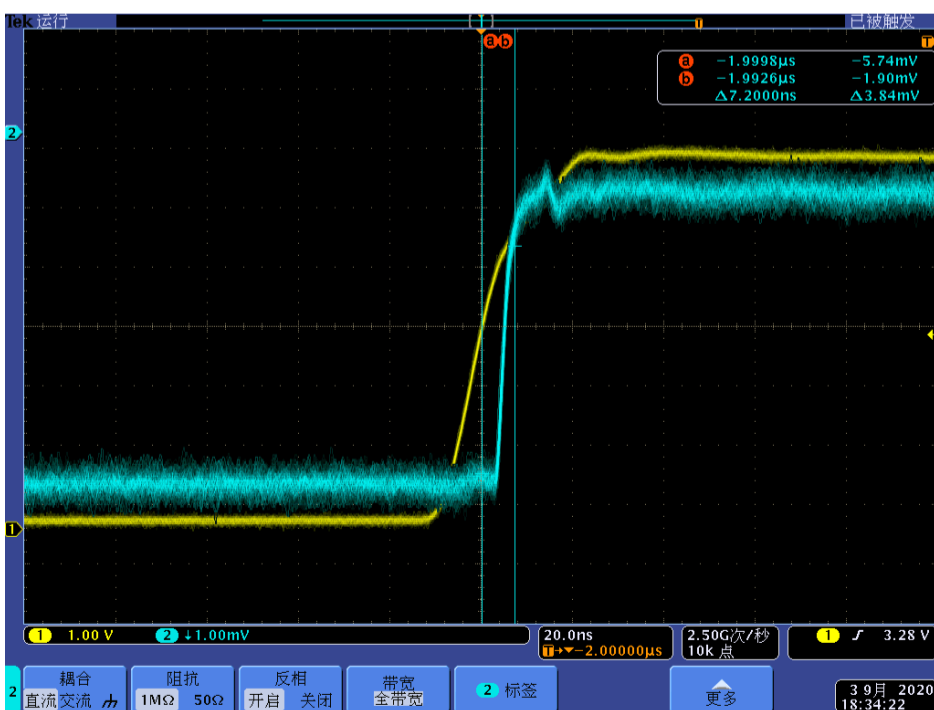
J0 - J2



J2 Isolation



Turn On Switching Speed



Turn Off Switching Speed

