3 to 6 GHz SP13T Absorptive RF Switch Datasheet

Product ID: SW00313 Model: S13TA-030060E4B

- SP13T Absorptive RF Switch
- Wideband Operation
- Low Insertion Loss: 3.8 dB Max.
- Fast Switching
- TTL Control

Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Frequency Range	GHz	3		6
Maximum Input Power	W			1
Insertion Loss	dB		3.5	3.8
VSWR	: 1			1.7
Isolation	dB	60		
Switching Time	ns			100
Supply Current @ +5 V	mA		650	
Supply Current @ -5 V	mA		100	
Control Interface			PIN	
Control Type			TTL	
Impedance	Ω		50	
Operating Temperature	°C	-45		+85

Note

- Measured at +25 °C, 50 Ω system, sea level, unless otherwise noted.
- Switching time is measured from 50% of the TTL control transition to 90% RF for turn-on and 10% RF for turn-off.
- Rise / fall time is measured from 10% to 90% RF and from 90% to 10% RF, respectively.

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Mechanical Specifications

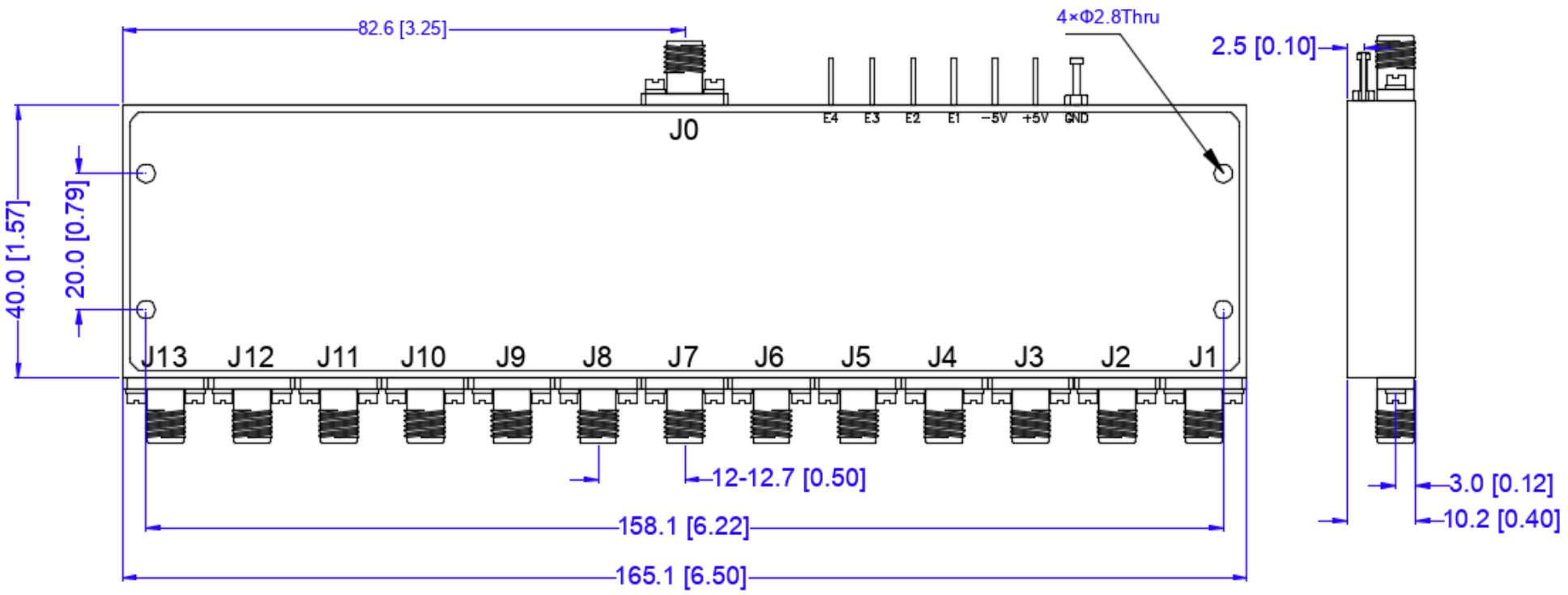
Dimensions (L×W×H)	165.1*40*10.2 mm
RF Input Connector	SMA-Female Stainless Steel
RF Output Connectors	SMA-Female Stainless Steel
Weight	310 g
Finish	Nickel Plated
Environment	Nominal
RoHS / REACH Compliant	√

Truth Table

Control Input TTL				Signal Path State
E4	E3	E2	E1	
0	0	0	0	J0-J1
0	0	0	1	J0-J2
0	0	1	0	J0-J3
0	0	1	1	J0-J4
0	1	0	0	J0-J5
0	1	0	1	J0-J6
0	1	1	0	J0-J7
0	1	1	1	J0-J8
1	0	0	0	J0-J9
1	0	0	1	J0-J10
1	0	1	0	J0-J11
1	0	1	1	J0-J12
1	1	0	0	J0-J13

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

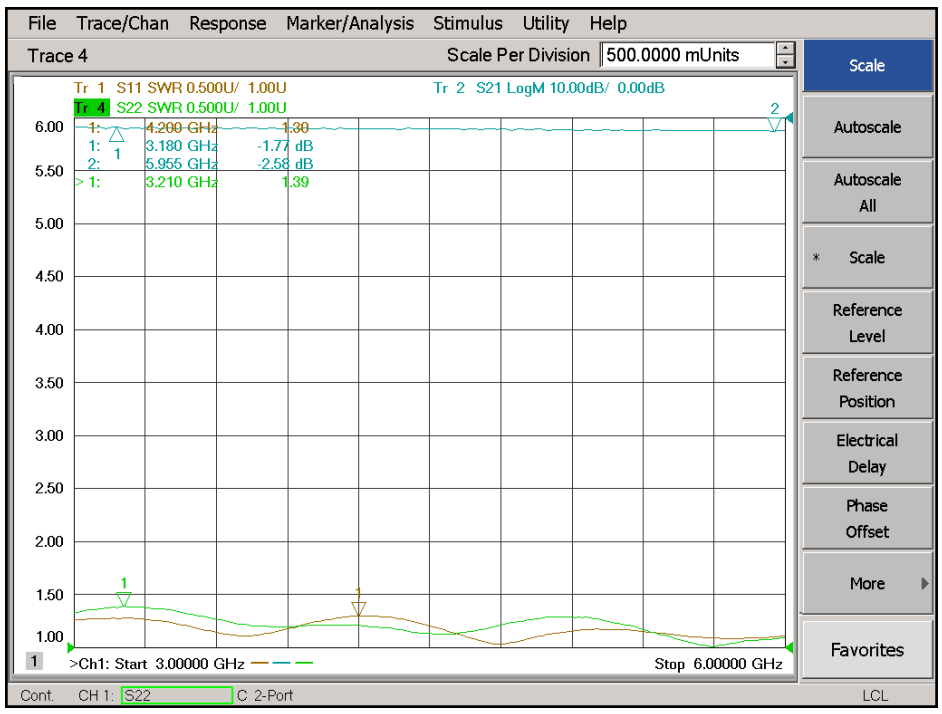
CAD Drawing



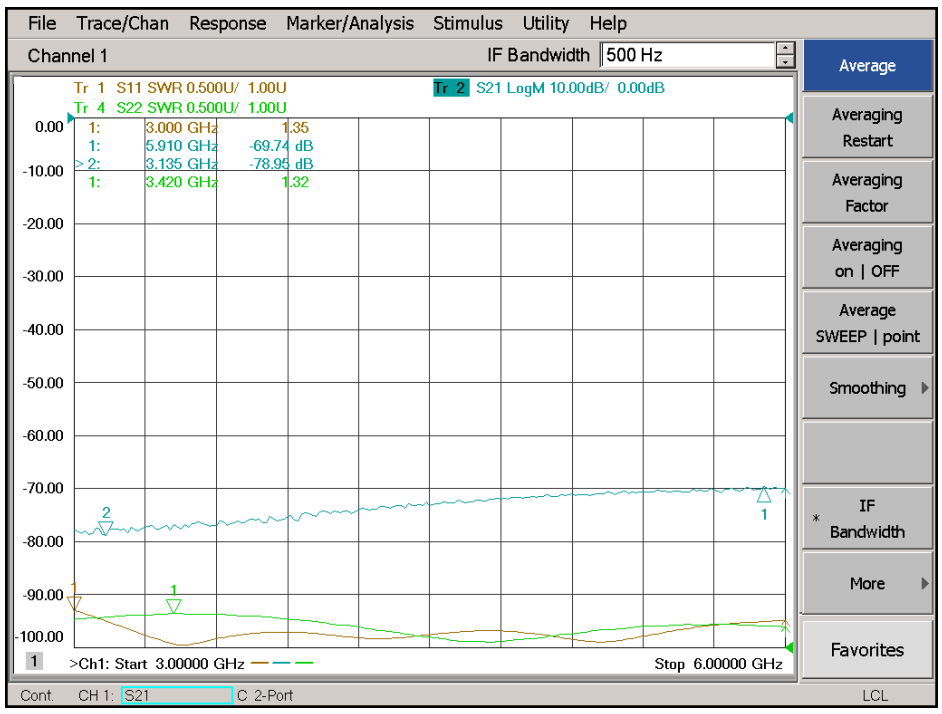
Dimensions are in mm [Inches]
Tolerances: Outline drawing: ±0.2 [0.008]
Hole: ±0.2 [0.008]

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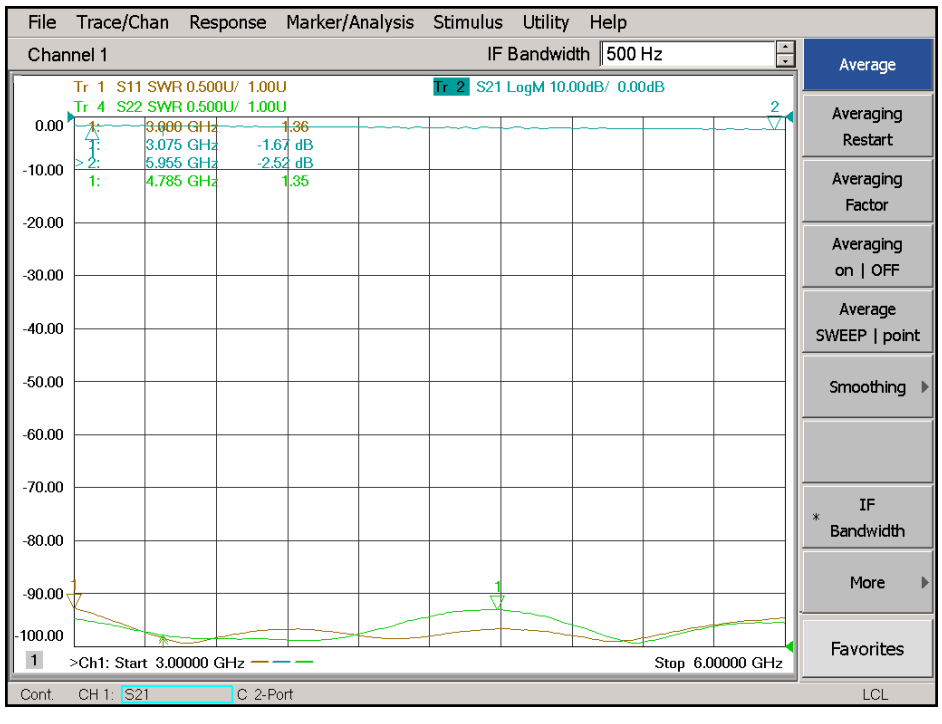
J0 to J1 Insertion Loss



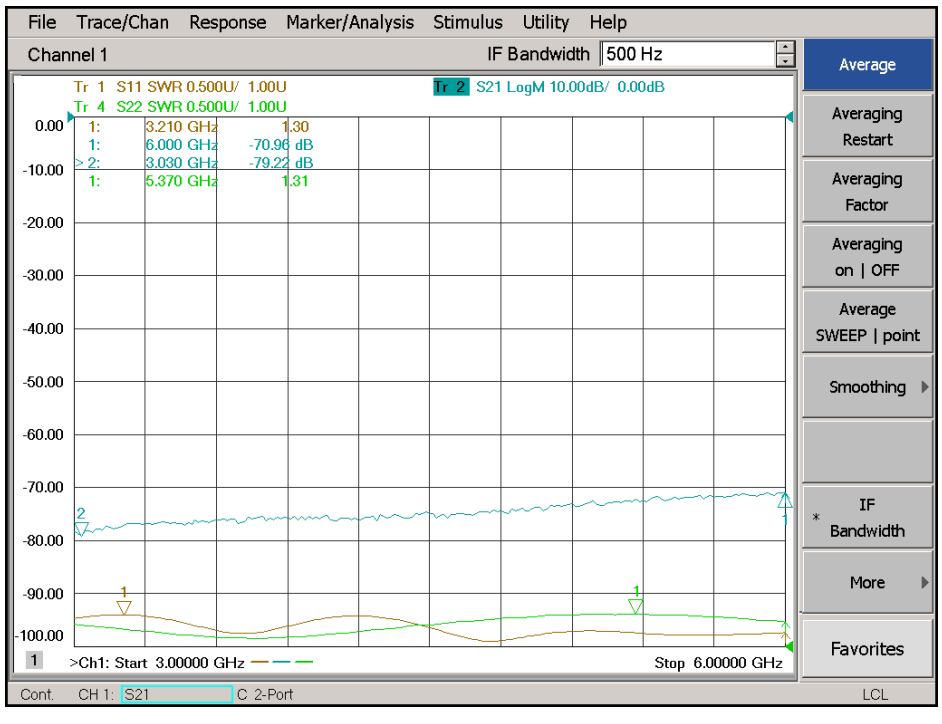
J0 to J1 Isolation



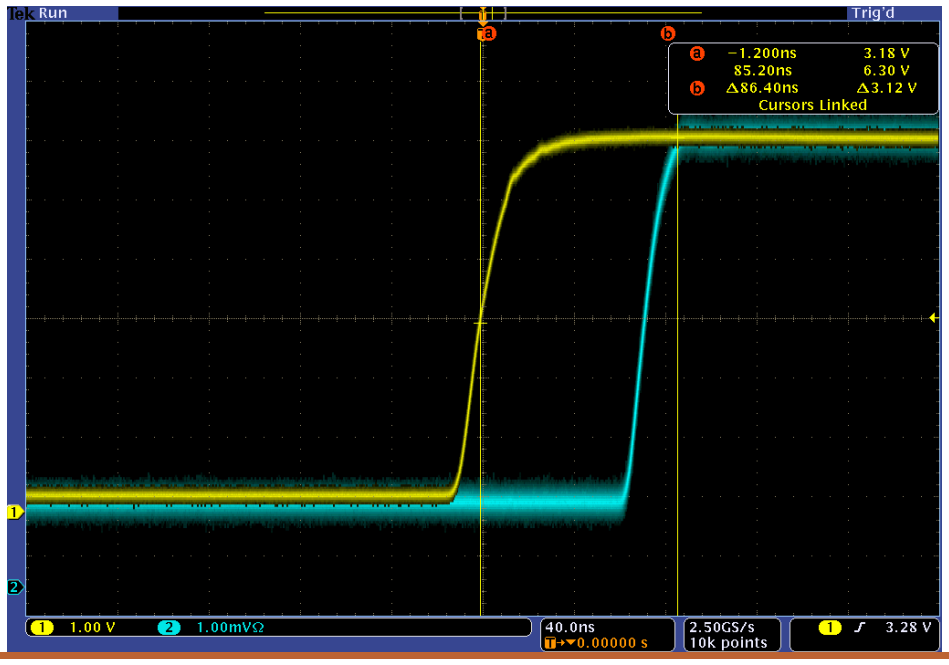
J0 to J2 Insertion Loss



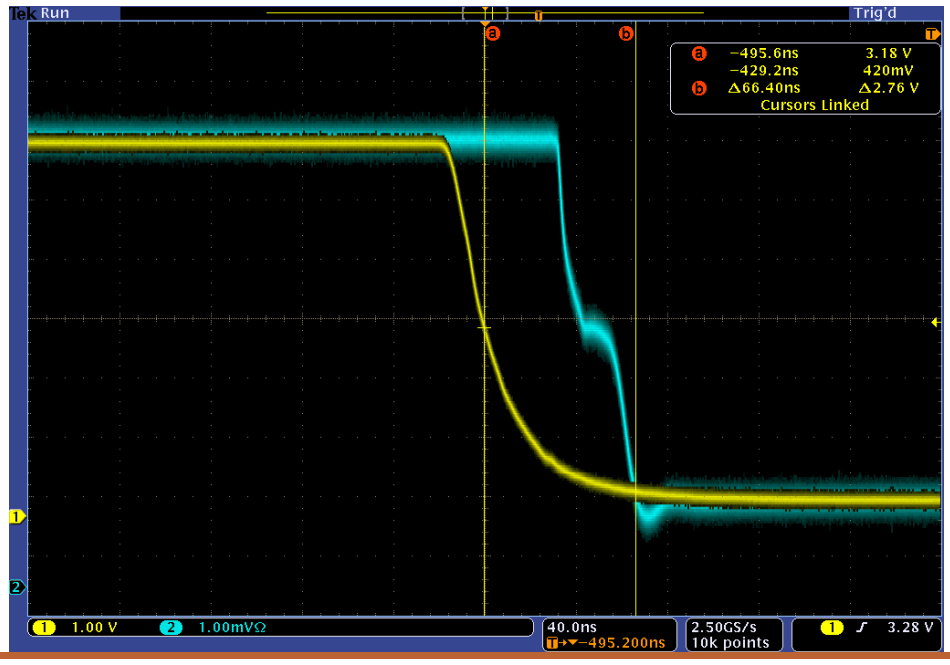
J0 to J2 Isolation



Turn-On Switching Time



Turn-Off Switching Time



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