0.02 to 3 GHz SPDT Absorptive RF Switch Datasheet

Product ID: SW00054 Model: SDTA-20M030EC

- SPDT Absorptive RF Switch
- Wideband Operation
- Low Insertion Loss: 2.5@20MHz dB Max.
- Fast Switching
- TTL Control

Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Frequency Range	GHz	0.02		3
Maximum Input Power	W			1
Insertion Loss	dB		1.5@30-300	2.5@20MHz
VSWR	: 1			1.6
Isolation	dB	80		
Switching Time	ns			160
Rise / Fall Time	ns			50
Supply Current @ +5 V	mA		100	
Supply Current @ -12 V	mA		50	
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

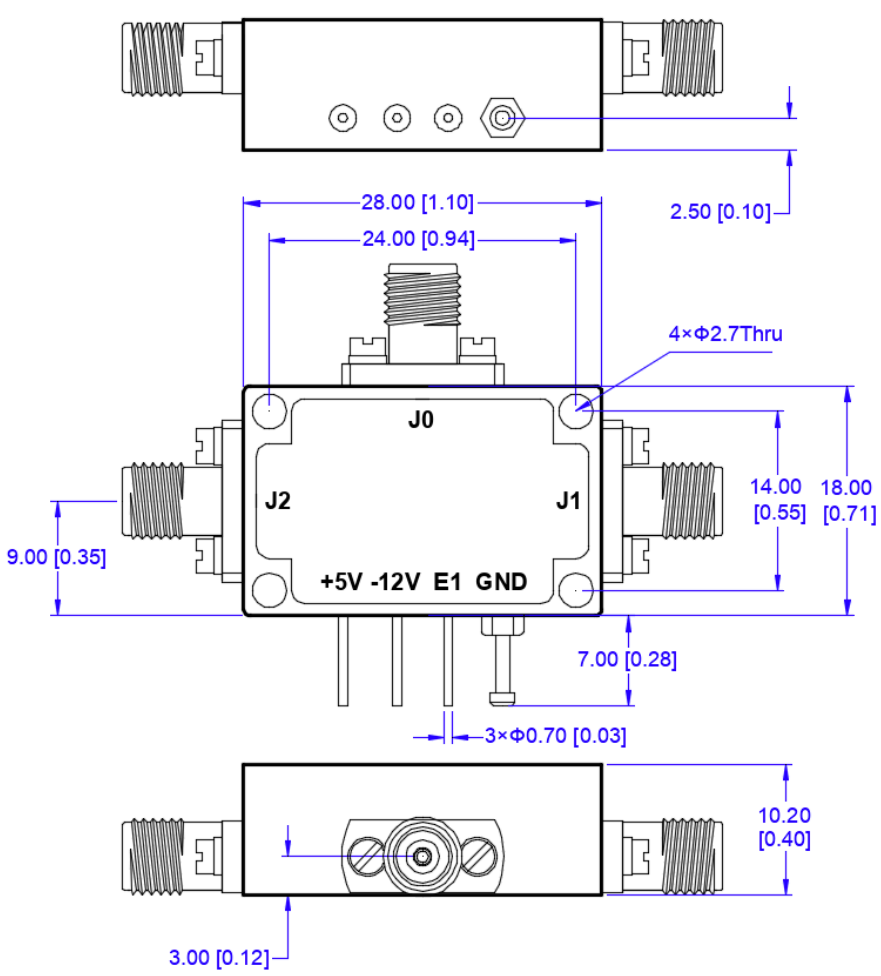
Dimensions (L×W×H)	28*18*10.2 mm
RF Input Connector	SMA-Female Stainless Steel
RF Output Connectors	SMA-Female Stainless Steel
Weight	20 g
Finish	Gold Plated
Environment	Nominal
RoHS / REACH Compliant	√

Truth Table

Control Input TTL	Signal Path State
E1 or TTL	
0	J0-J1
1	J0-J2

- 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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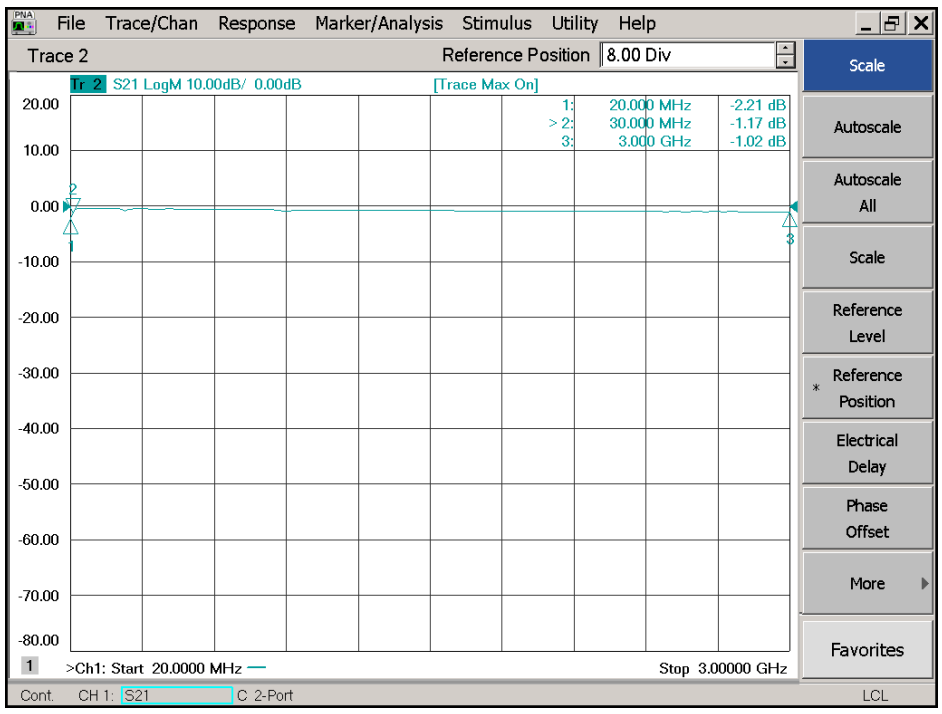
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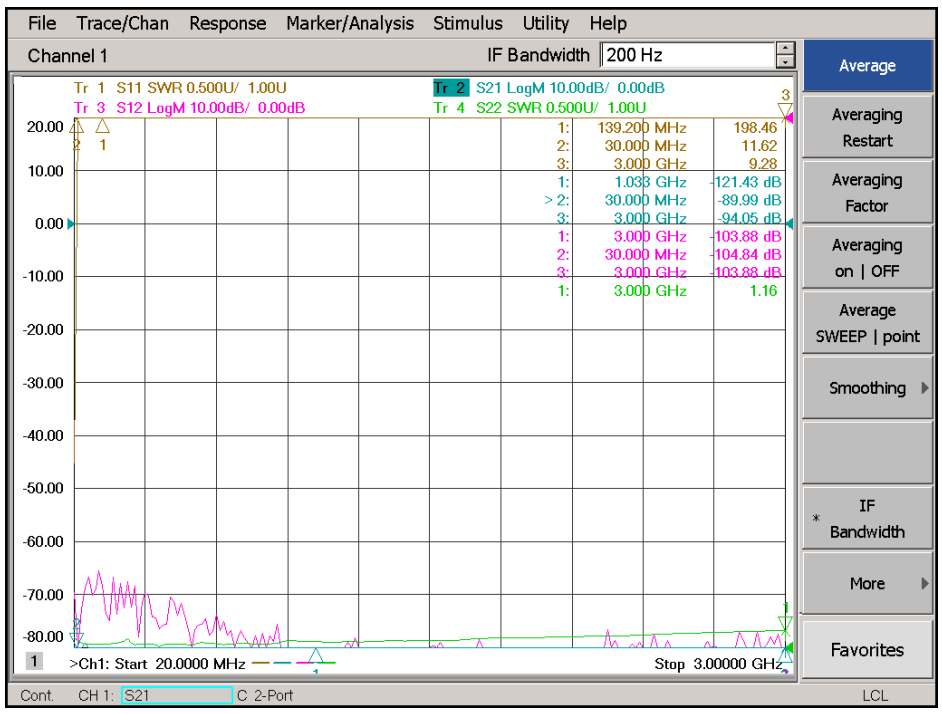
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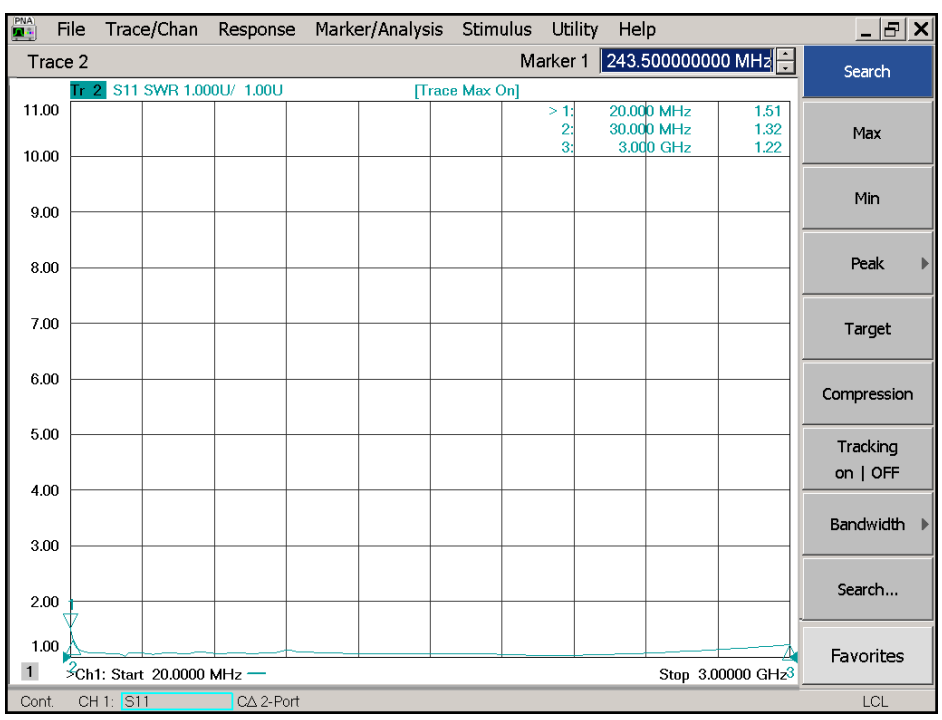
J0 to J1 Insertion Loss



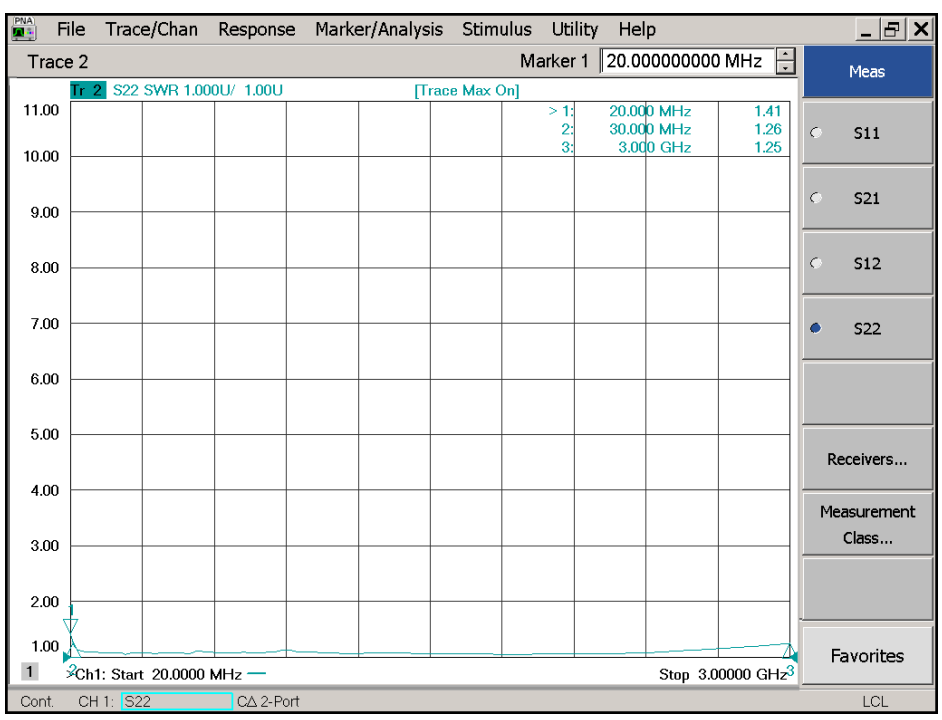
J0 to J1 Isolation



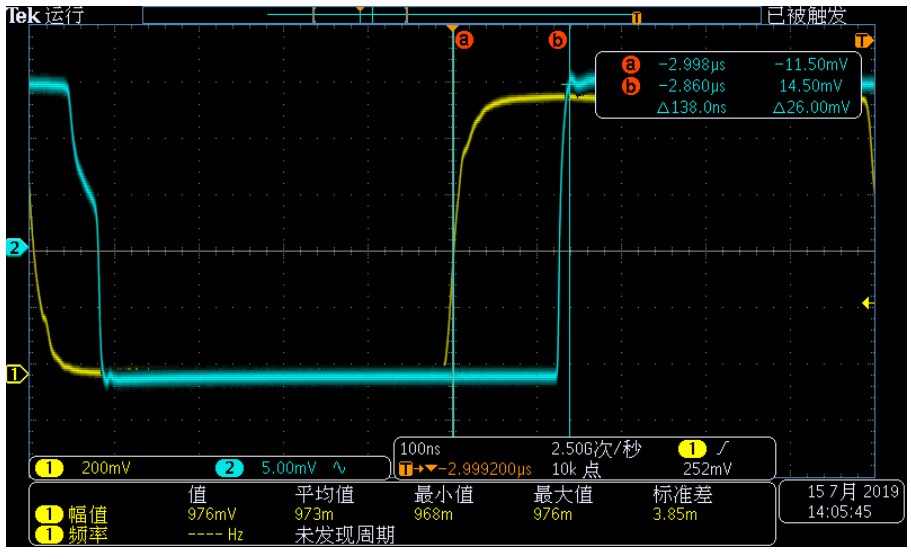
J0 to J2 Insertion Loss



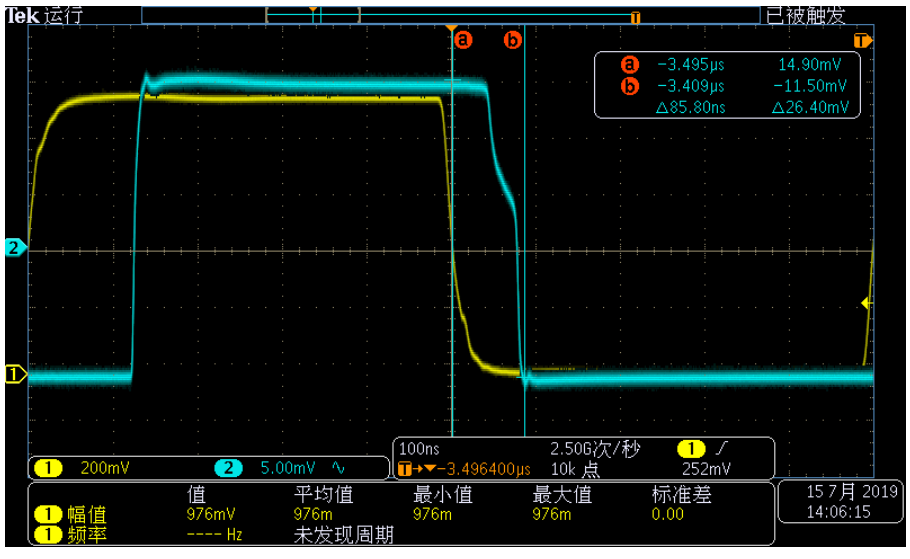
J0 to J2 Isolation



Turn-On Switching Time



Turn-Off Switching Time



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