0.01 to 3 GHz SPDT Absorptive RF Switch Datasheet

Product ID: SW00254 Model: SDTA-10M030EC

- SPDT Absorptive RF Switch
- Wideband Operation
- Low Insertion Loss: 1.7 dB Max.
- Fast Switching
- TTL Control

Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Frequency Range	GHz	0.01		3
Maximum Input Power	W			1 (5W@5us PW)
Insertion Loss	dB			1.7
VSWR	: 1			1.5
Isolation	dB	60		
Switching Time	ns			500
Rise / Fall Time	ns			200
Supply Current @ +5 V	mA		75	
Supply Current @ -12 V	mA		60	
Control Interface			PIN	
Control Type			TTL	
Impedance	Ω		50	
Operating Temperature	°C	-45		+85

Special Requirements

Phase Balance : ±1 deg

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

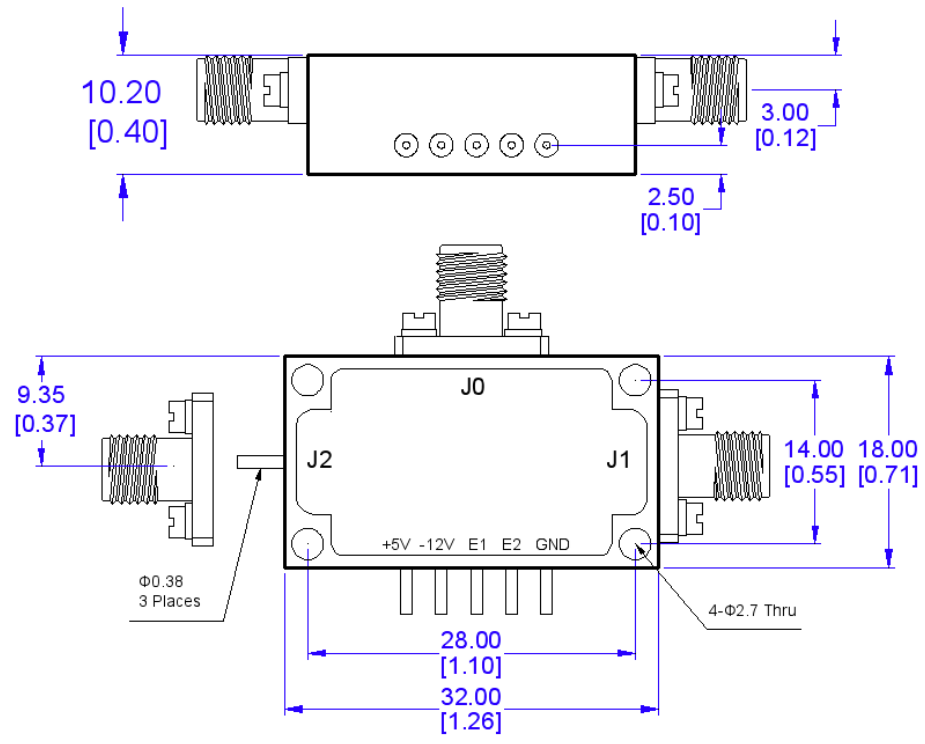
Dimensions (L×W×H)	32*18*10.2 mm
RF Input Connector	SMA-Female Stainless Steel
RF Output Connectors	SMA-Female Stainless Steel
Weight	20 g
Finish	Gold Plated
Environment	Nominal
RoHS / REACH Compliant	√

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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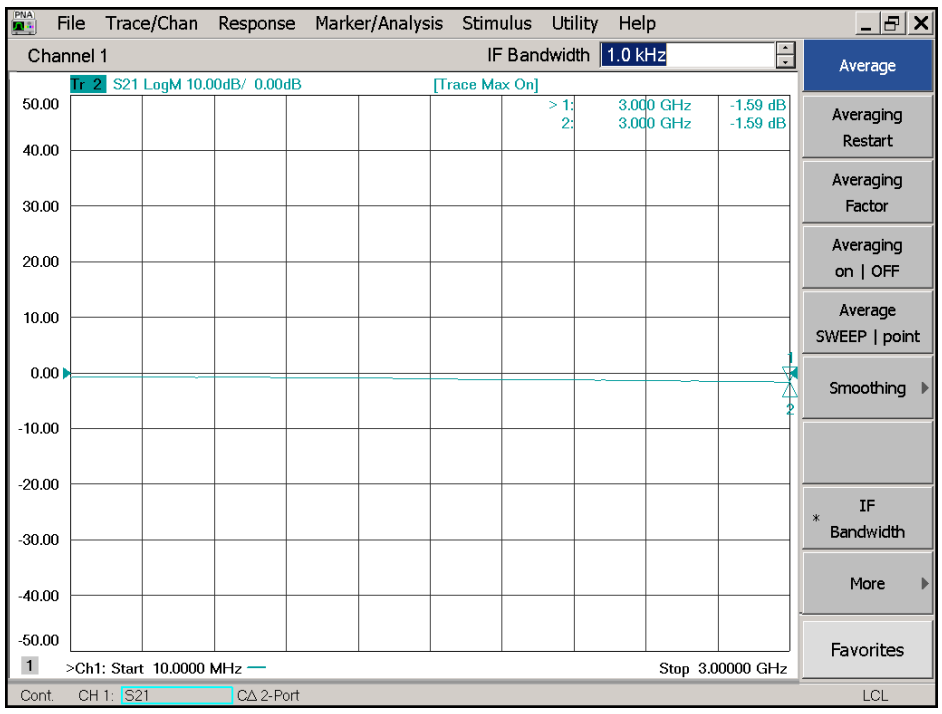
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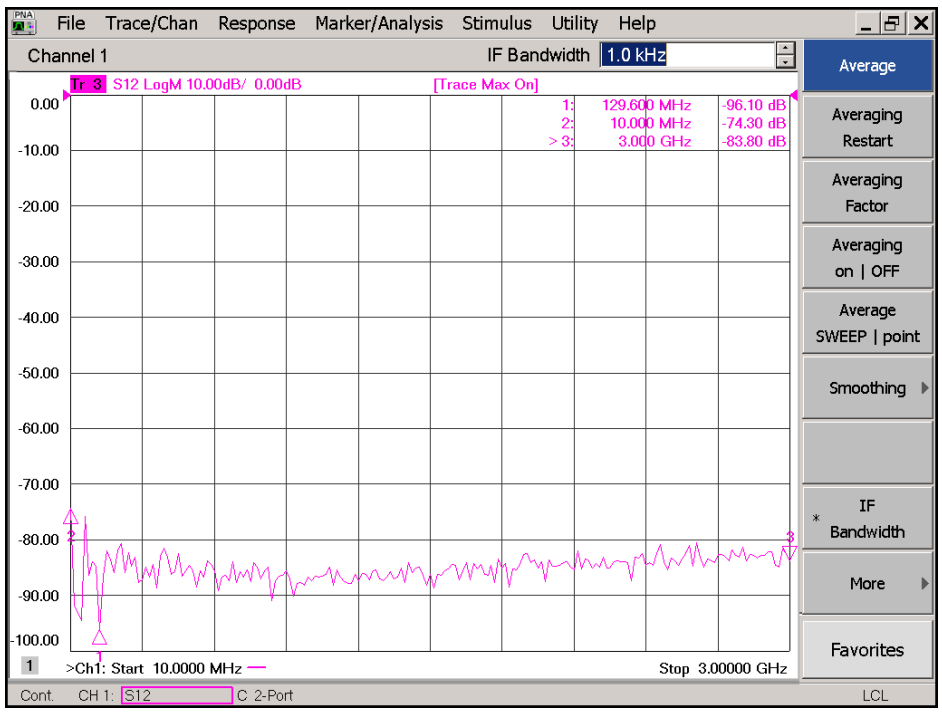
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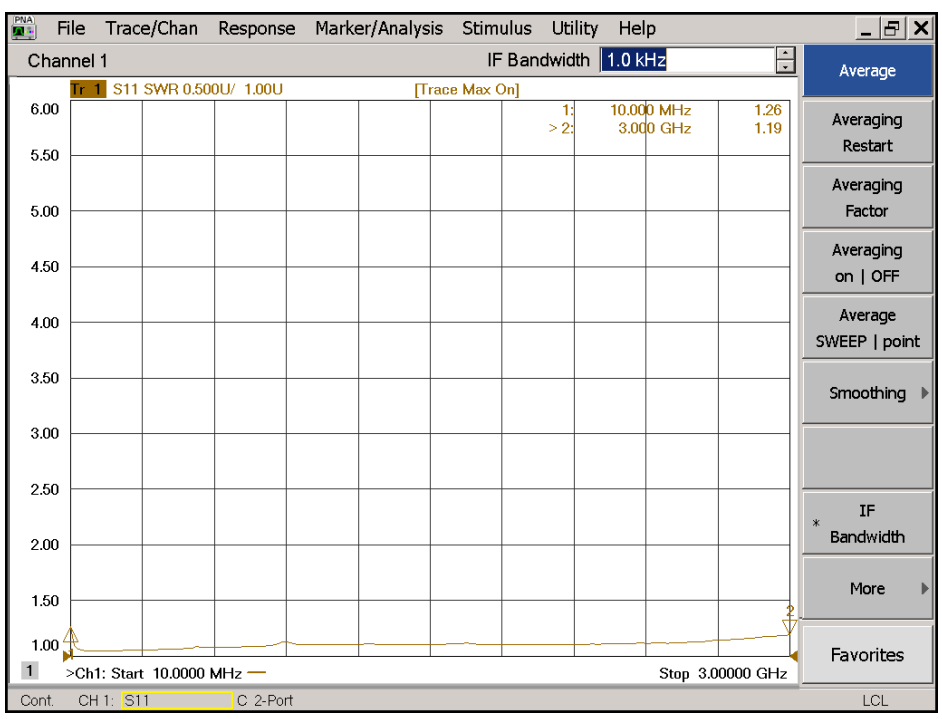
J0 to J1 Insertion Loss



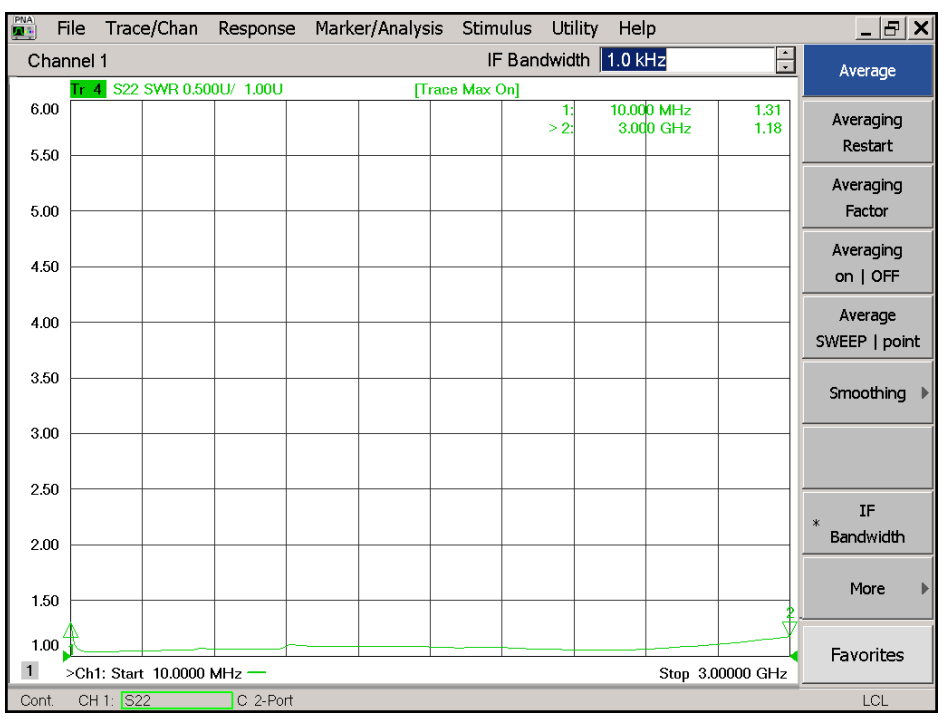
J0 to J1 Isolation



J0 to J2 Insertion Loss



J0 to J2 Isolation



Turn-On Switching Time

Turn-Off Switching Time

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