0.1 to 50 GHz SP8T Absorptive RF Switch Datasheet

Product ID: SW00555 Model: S8TA-001500E3B

- SP8T Absorptive RF Switch
- Wideband Operation
- Low Insertion Loss: 13 dB Max.
- Fast Switching
- TTL Control

Electrical Specifications

Description	Units	Minimum	Typical	Maximum
Frequency Range	GHz	0.1		50
Maximum Input Power	W			0.2
Insertion Loss	dB		10	13
VSWR	: 1		2.5	3
Isolation	dB	60	70	
Switching Time	ns			100
Supply Current @ +5 V	mA		350	
Supply Current @ -5 V	mA		40	
Control Interface			MICRO-D9	
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

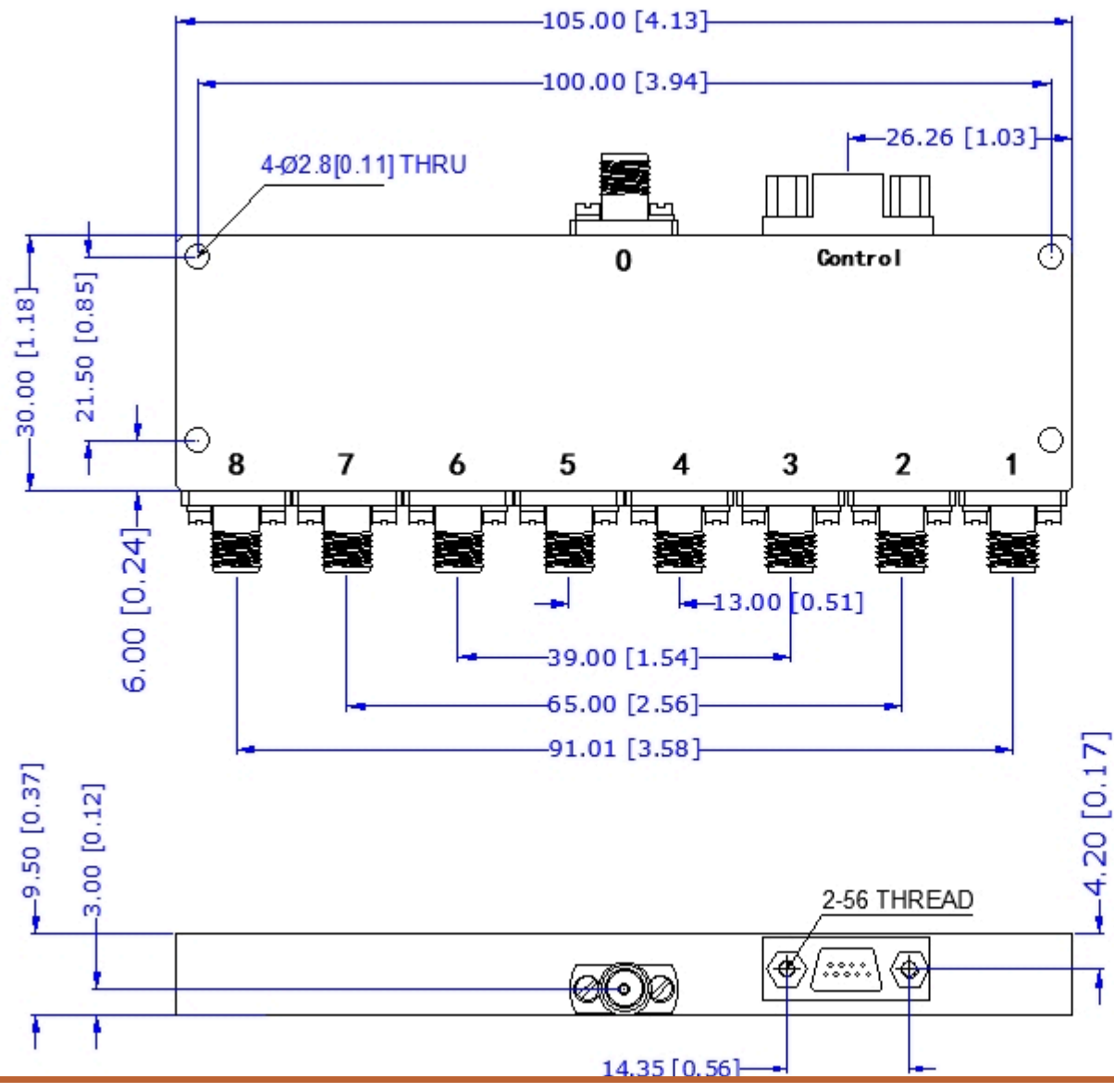
Dimensions (L×W×H)	105*30*9.5 mm
RF Input Connector	2.4mm-Female Stainless Steel
RF Output Connectors	2.4mm-Female Stainless Steel
Weight	80 g
Finish	Gold Plated
Environment	Nominal
RoHS / REACH Compliant	√

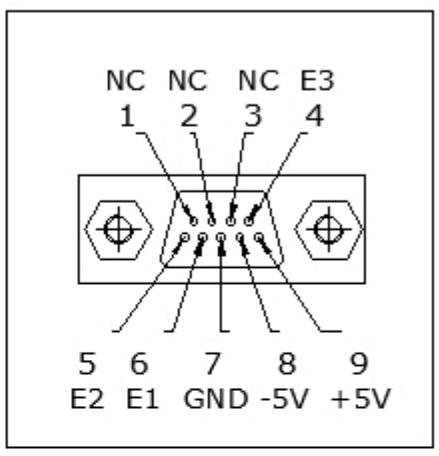
Truth Table

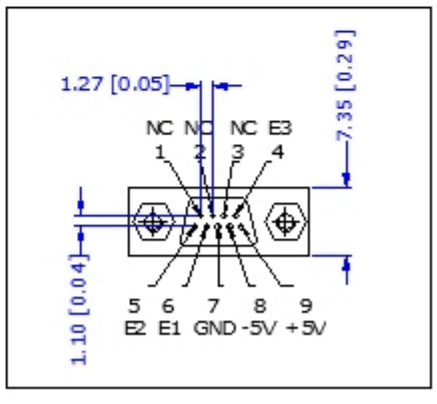
Control Input TTL			Signal Path State
E3	E2	E1	
0	0	0	J0-J1
0	0	1	J0-J2
0	1	0	J0-J3
0	1	1	J0-J4
1	0	0	J0-J5
1	0	1	J0-J6
1	1	0	J0-J7
1	1	1	J0-J8

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

CAD Drawing







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