



USB Absorptive Coaxial SP2T Switch 0.02 - 18GHz



Features

- Wide Band Operation 0.02-18GHz
- USB Controlled and Powered.
- Low Insertion Loss and High Isolation
- Customization available upon request
- Control SW included.

Typical Applications

- Automated Test
- Aerospace and military applications

Electrical Specifications, TA = +25 °C, USB Powered

Description	PN: RFSP2TA0018GUSB										
	SP2T Absorptive Switch										
	Low Power Cold Switching										
Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units	
Frequency Range	0.02-8			8-12			12-18			GHz	
Insertion Loss			3.2			4			4.5	dB	
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/°C	
Isolation	65			60			60			dB	
Input VSWR			2			2			2	:1	
Output VSWR			2			2			2	:1	
RF Input power (CW)			1			1			1	W	
DC Power Dissipation		0.55			0.55			0.55		W	
0.1dB Compression Point (P 0.1dB)		30			30			30		dBm	
IIP3		55			55			55		dBm	
Weight	1.5									ounces	
Impedance	50									Ω	
Bias Current	110									mA	
Control Interface	USB 2.0 (Control Cable Included)										
Switching Speed	200~300 ms										
Input / Output Connectors	SMA-Female										
Finishing	Nickel Plated										
Material	Aluminum										

USB Absorptive Coaxial Single Pole Double Throw Switch 0.02 - 18GHz



Absolute Maximum Ratings

RF Input Power	+30dBm
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Ordering Information

Part No.	ECCN	Description
RFSP2TA0018GUSB	EAR99	SP2T 0.02-18GHz PIN Diode Switch

Environmental Specifications

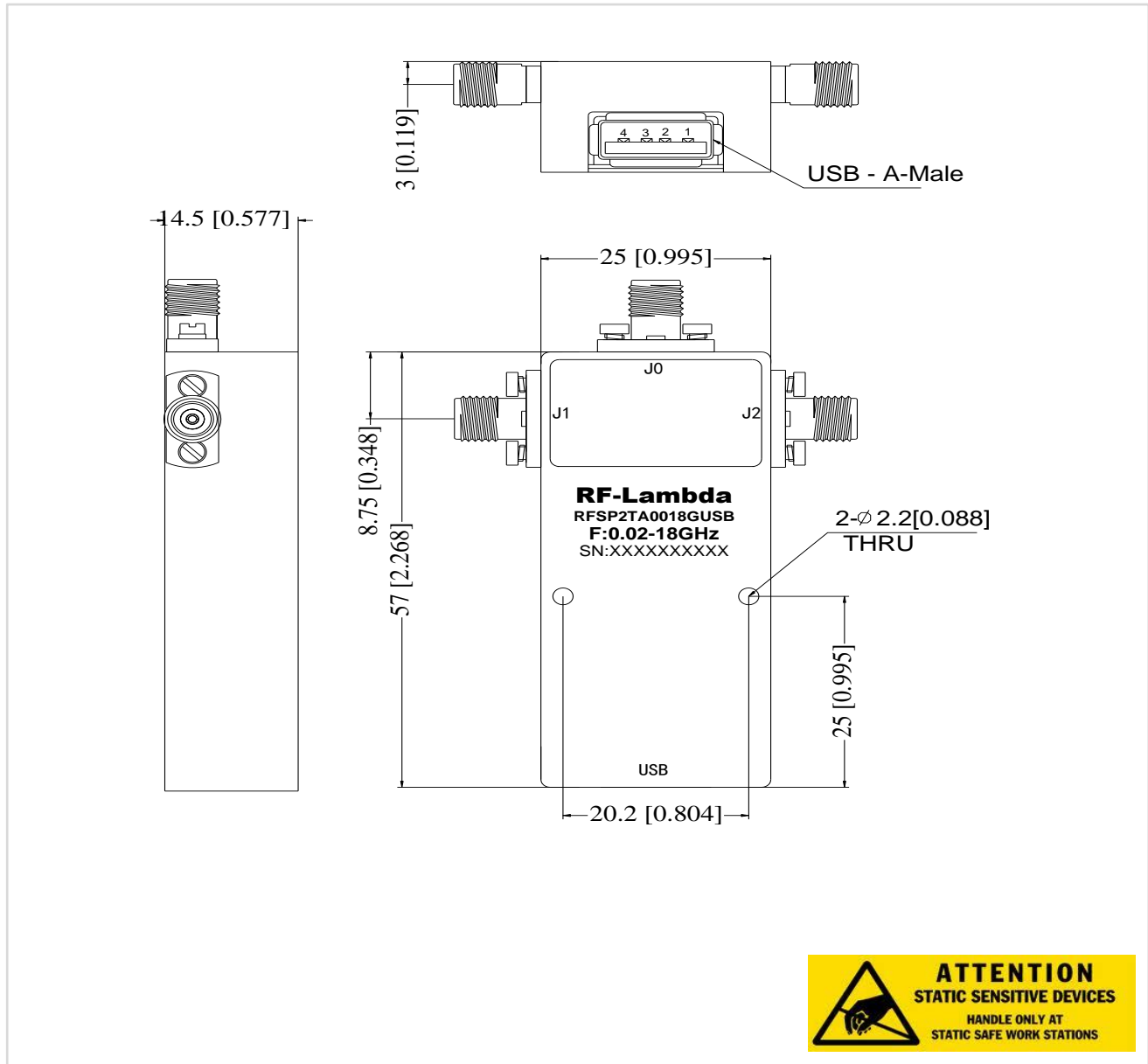
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msec half sine wave, 3 axis both directions

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Outline Drawing:

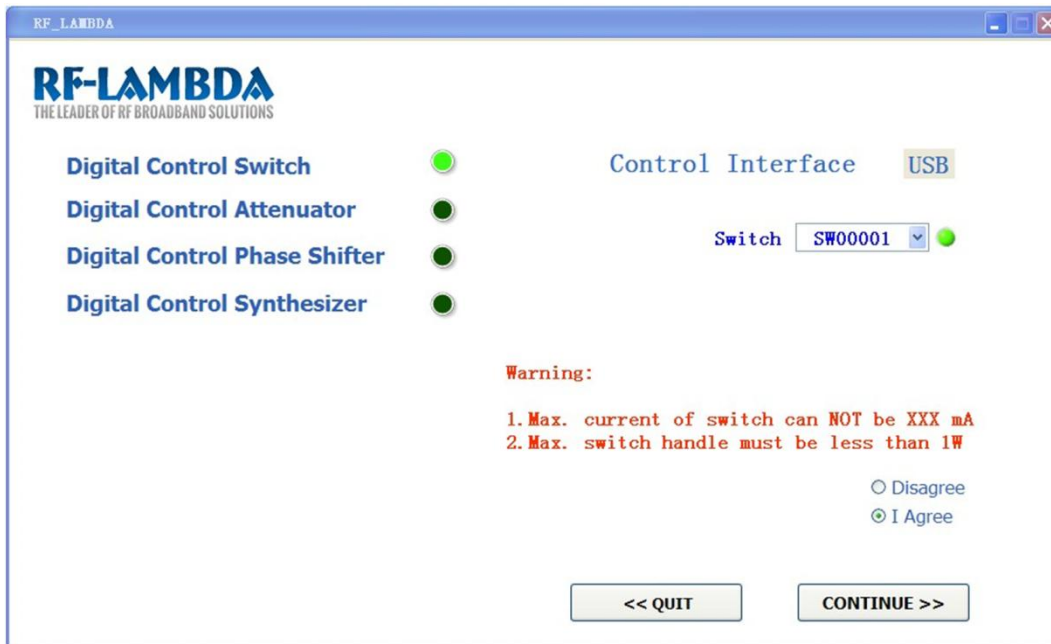
All Dimensions in mm [inches]

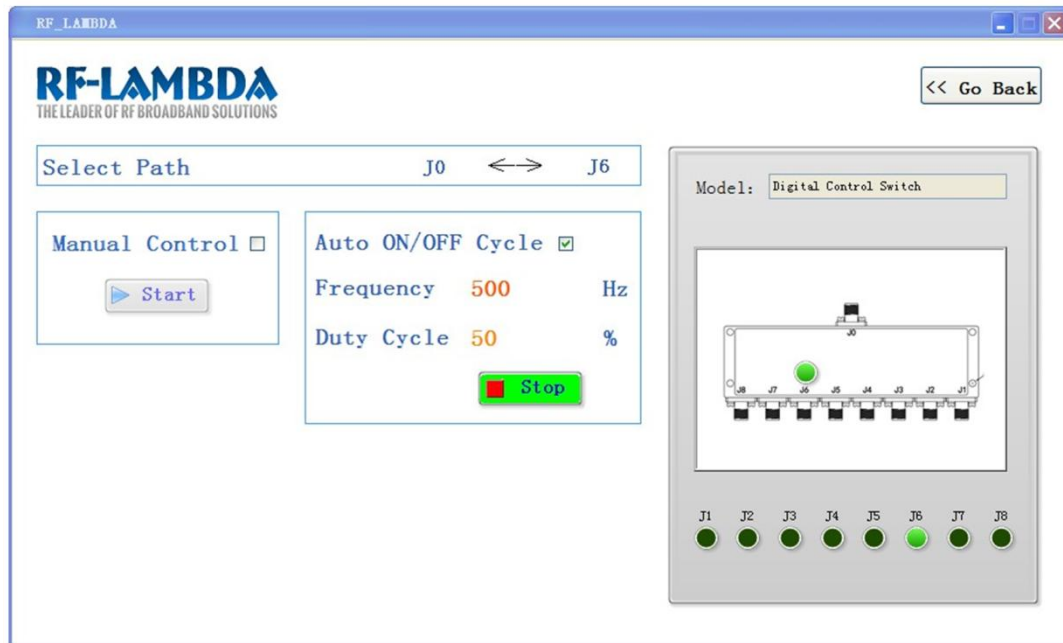
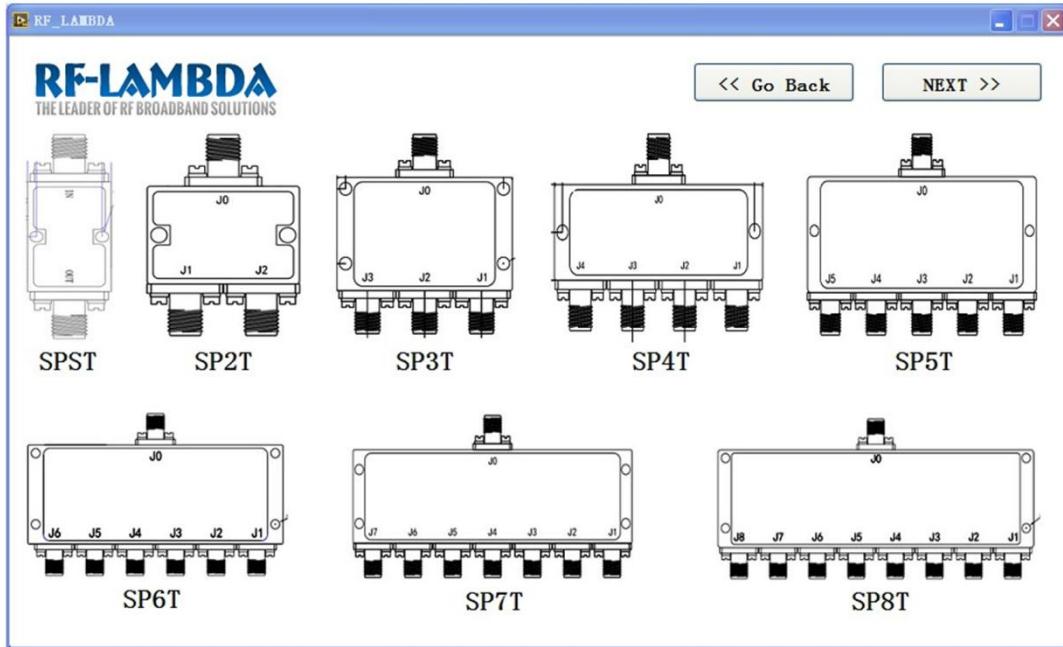


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Figure 1 (USB Control Panel)





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