



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSP8TA0250GUSB

USB Absorptive Coaxial SP8T Switch 2 - 50GHz

Features

- Wide Band Operation 2-50GHz
- 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: RFSP8TA0250GUSB									
	SP8T Absorptive Switch									
	Low Power Cold Switching									
Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	2-18			18-40			40-50			GHz
Insertion Loss			6			7			11	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/°C
Isolation	55			55			50			dB
Input VSWR		2.8			2.8				3	:1
Output VSWR		2.8			2.8				3	:1
RF Input Power (CW)			0.2			0.2			0.2	W
DC Power Dissipation		0.8			0.8			0.8		W
0.1dB Compression Point (Po.1dB)		23			23			23		dBm
IIP3		55			55			55		dBm
Switching Speed	200									ms
Weight	1.76									ounces
Impedance	50									Ω
Bias Current	150									mA
Control Interface	USB 2.0 (Control Cable Included)									
Input / Output Connectors	SMA-Female									
Finish	Gold or Nickel Plated									
Material	Aluminum									

USB Absorptive Coaxial Single Pole Eight Throw Switch 2 - 50GHz



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Absolute Maximum Ratings

RF Input Power	+23 dBm
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Ordering Information

Part No.	ECCN	Description
RFSP8TA0250GUSB	EAR99	SP8T 2-50GHz 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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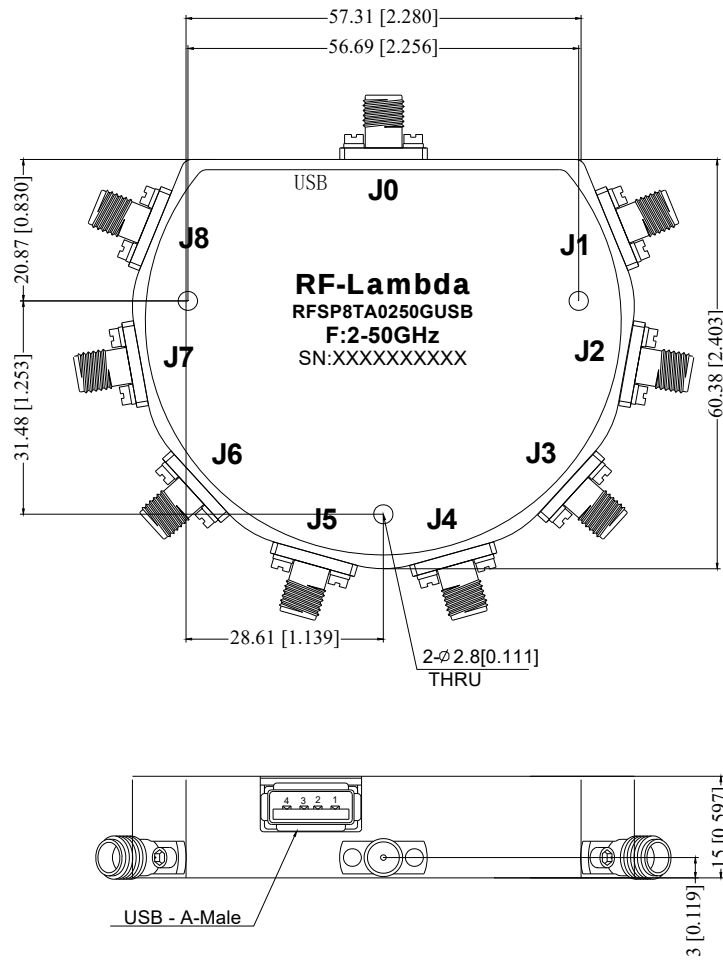
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Outline Drawing:

All Dimensions in mm [inches]



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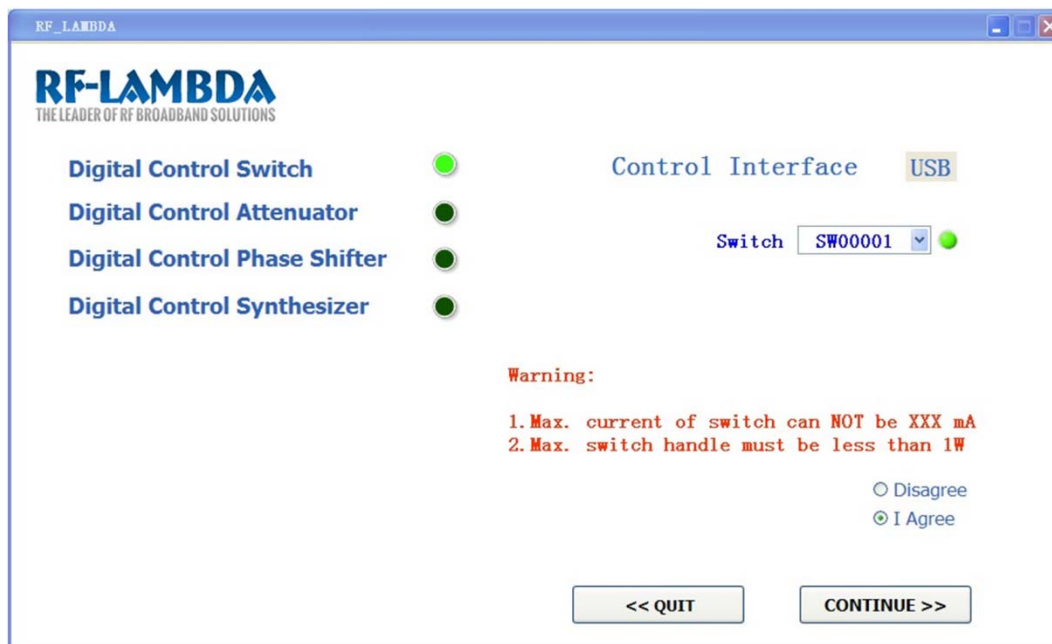
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Figure 1 (USB Control Panel)



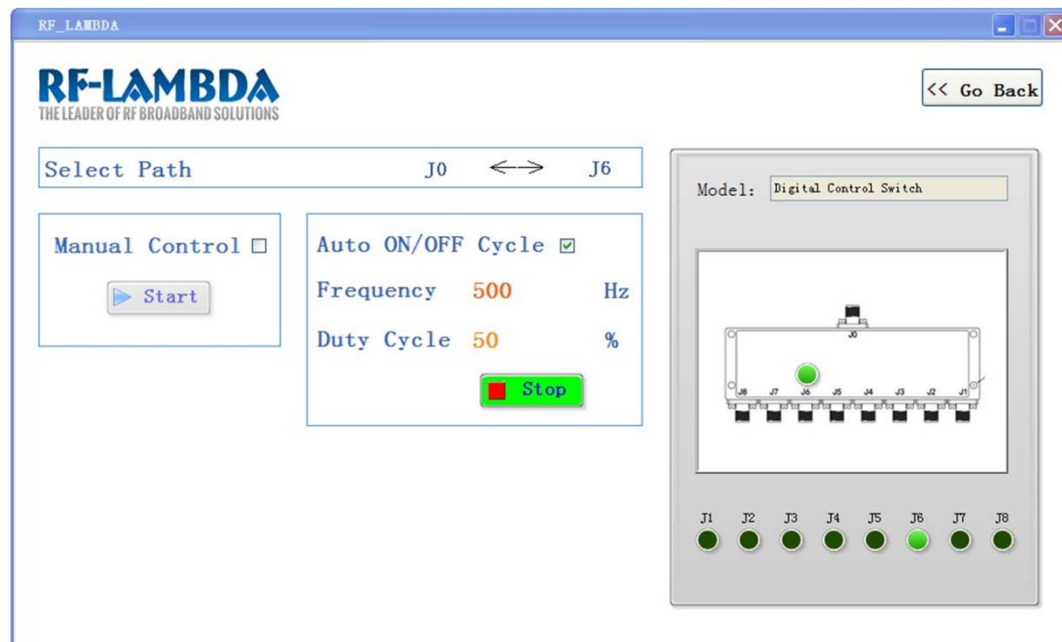
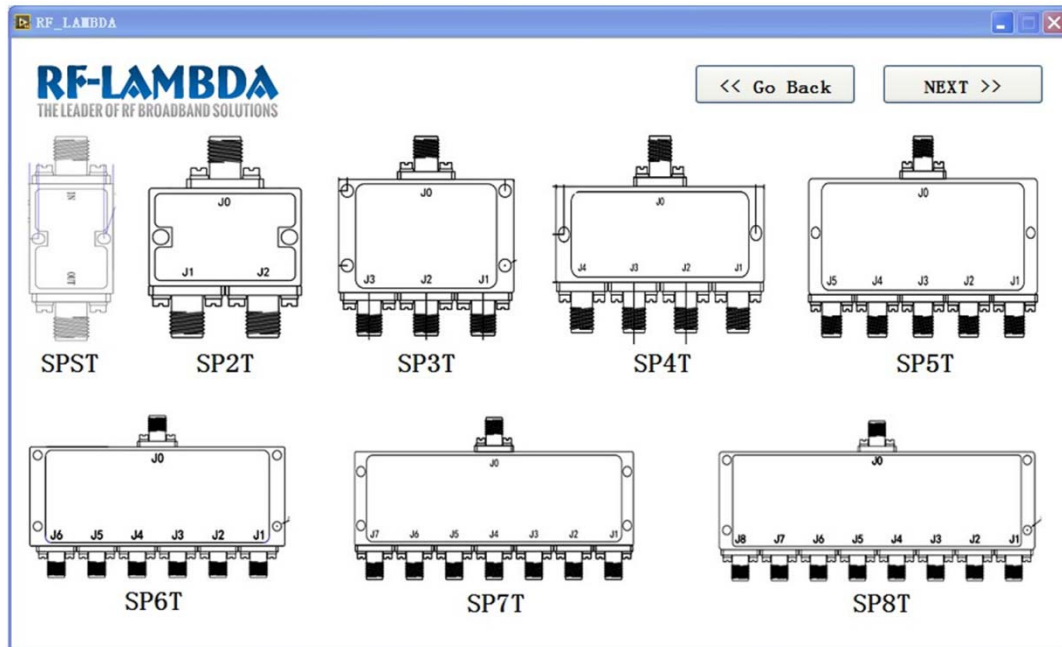


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