



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFSPSTA0003GRUSB

USB Absorptive Coaxial SPST Switch 0.02 - 3GHz



Features

- Wide Band Operation 0.02-3GHz
- 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, $T_A = +25^\circ\text{C}$, USB Powered

Description	PN: RFSPSTA0003GRUSB			
	SPST Absorptive Switch			
	Low Power Cold Switching			
Parameters	Min	Typ.	Max	Units
Frequency Range	0.02-3			GHz
Insertion Loss			2.4	dB
Insertion Loss Temperature Coefficient		0.003		dB/ $^\circ\text{C}$
Isolation	80			dB
Input VSWR				: 1
Output VSWR				: 1
RF Input Power (CW)			1	W
DC Power Dissipation				W
0.1dB Compression Point (P _{0.1dB})				dBm
IIP ₃				dBm
Weight				ounces
Impedance	50			Ω
Bias Current				mA
Control Interface	USB 2.0 (Control Cable Included)			
Switching Speed	100ns			
Input / Output Connectors	SMA-Female			
Finish	Gold Plated or Nickel Plated			
Material	Aluminum			

USB Absorptive Coaxial Single Pole Single Throw Switch 0.02 - 3GHz



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Absolute Maximum Ratings

RF Input Power	+30dBm
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Ordering Information

Part No.	ECCN	Description
RFSPSTA0003GRUSB	EAR99	SPST 0.02-3GHz PIN Diode Switch

Environmental Specifications

Operational Temperature (°C)	-20 ~ +75
Storage Temperature (°C)	-40 ~ +85
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msec half sine wave, 3 axis both directions



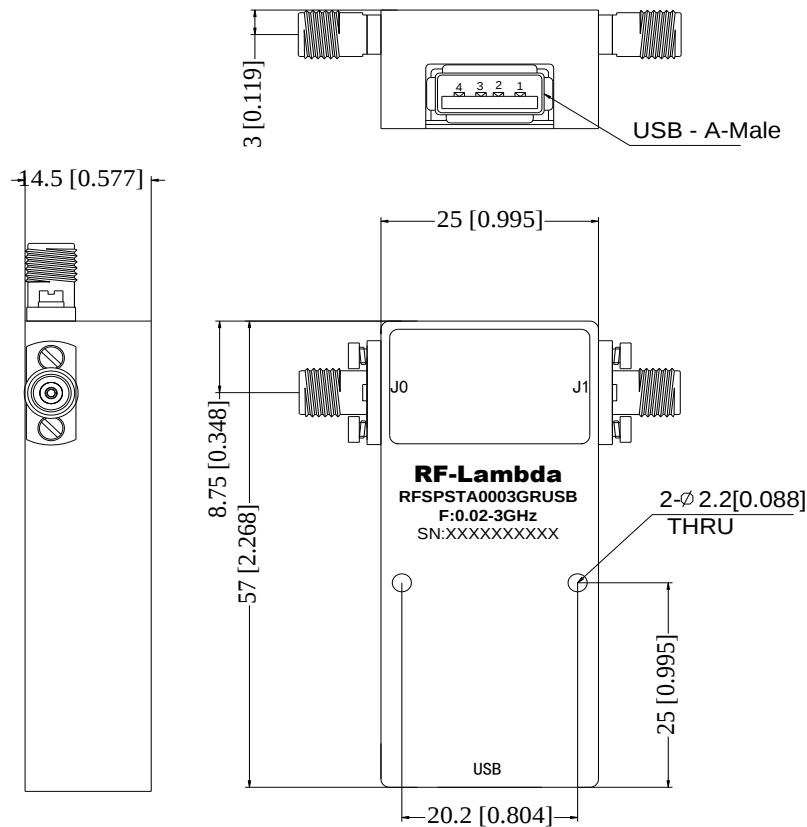
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Outline Drawing:

All Dimensions in mm [inches]



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Figure 1 (USB Control Panel)

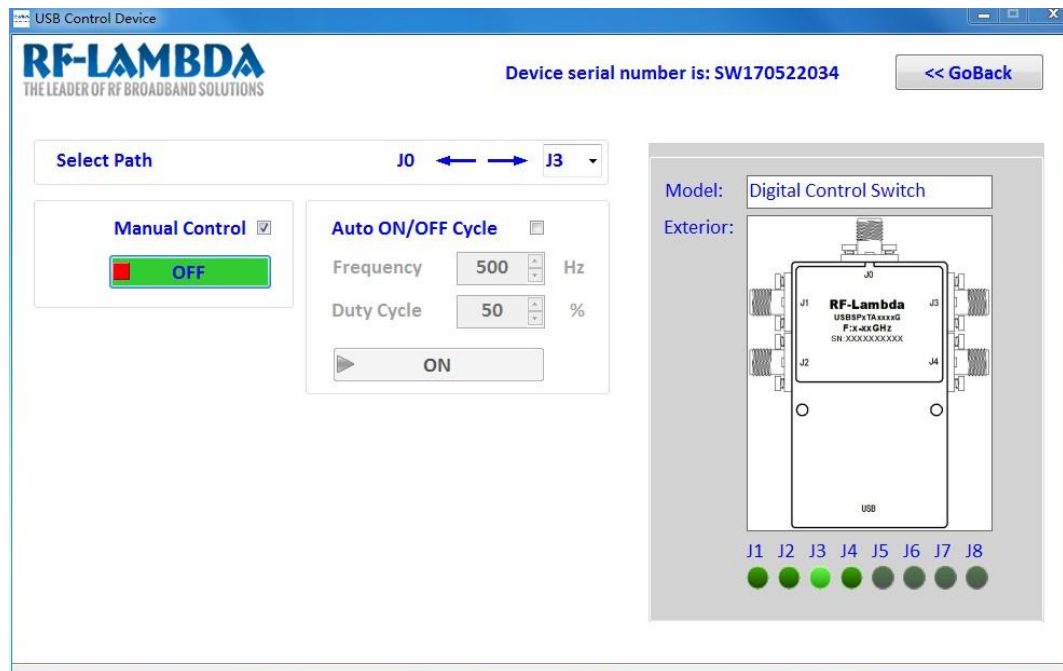




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