



USB Control Absorptive Coaxial SP4T Switch 2 - 18GHz



Features

- Wide Band Operation 2-18GHz
- 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

Absorptive Coaxial Single Pole Four Throw Switch 2 - 18GHz

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

Description	PN: RFSP4TA0218GUSB									
	SP4T Absorptive Switch									
	Low Power Cold Switching									
Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	2-8			8-12			12-18			GHz
Insertion Loss		1.6	1.8		2.2	2.4		2.7	3.2	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/°C
Isolation	65	70		60	65		58	60		dB
Input VSWR		1.5	1.8		1.6	1.8		1.6	1.8	: 1
Output VSWR		1.5	1.8		1.6	1.8		1.6	1.8	: 1
RF Input power (CW)			30			30			30	dBm
DC Power Dissipation		0.8			0.8			0.8		W
0.1dB Compression Point (P 0.1dB)		30			30			30		dBm
IIP3		55			55			55		dBm
Switching Speed	100									ns
Weight	1.76									ounces
Impedance	50									Ω
Bias Current	150									mA
Control Interface	USB 2.0 (Control Cable Included)									
Input / Output Connectors	SMA-Female									
Finishing	Gold Plating									
Material	Aluminum									



Absolute Maximum Ratings

RF Input Power	+30 dBm
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Ordering Information

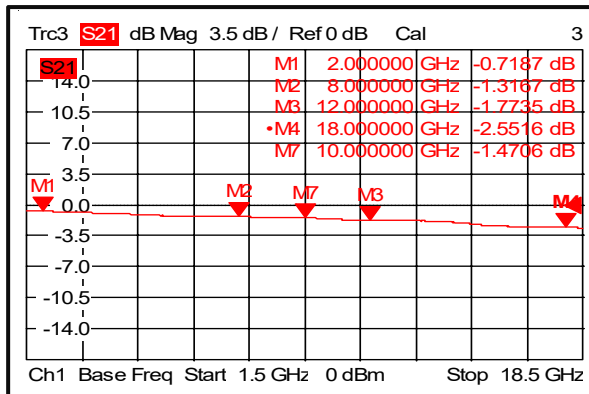
Part No.	ECCN	Description
RFSP4TA0218GUSB	EAR99	SP4T 2-18GHz PIN Diode Switch

Environmental Specifications

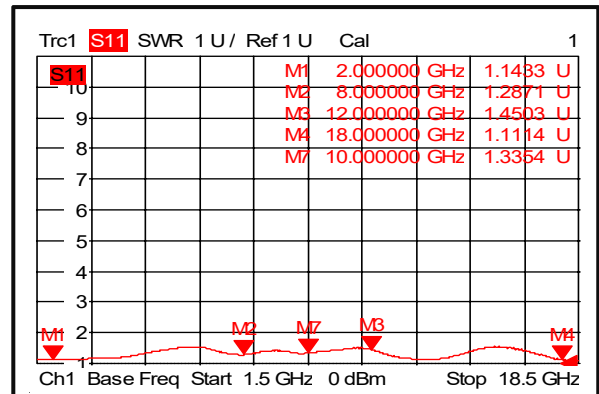
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msec half sine wave, 3 axis both directions

Typical Performance Plots

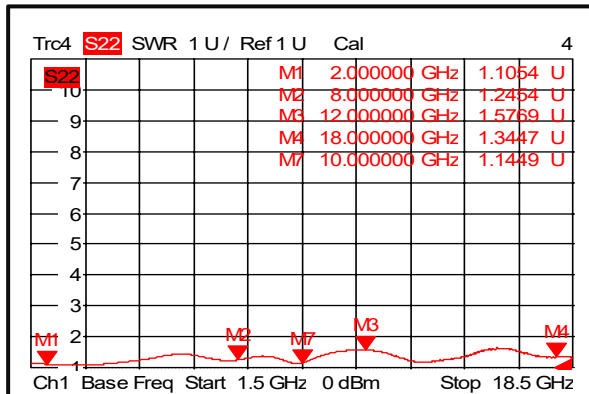
Insertion Loss @+25°C



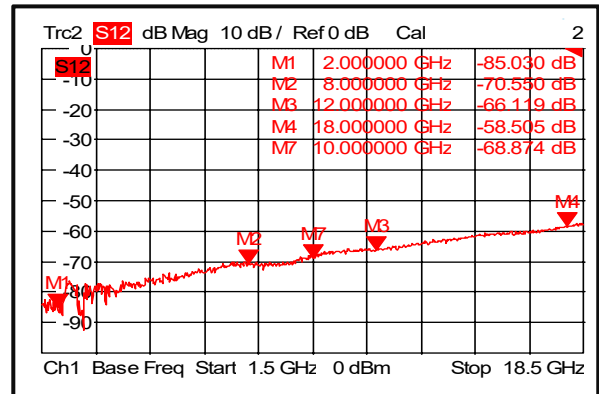
Input VSWR @+25°C



Output VSWR @+25°C

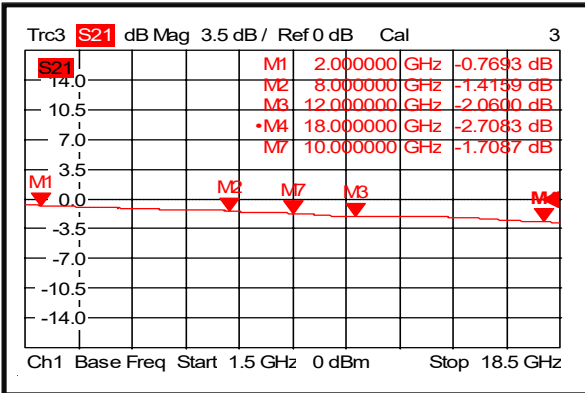


Isolation @+25°C

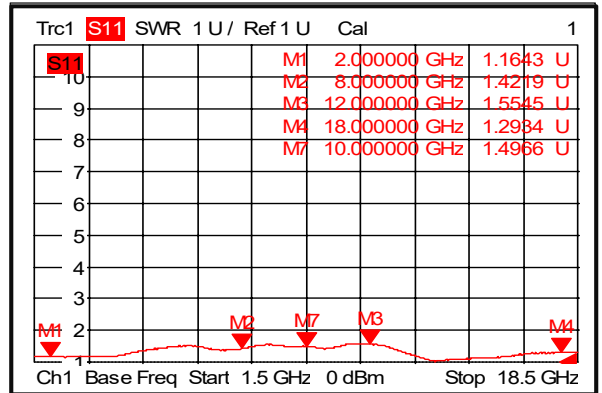




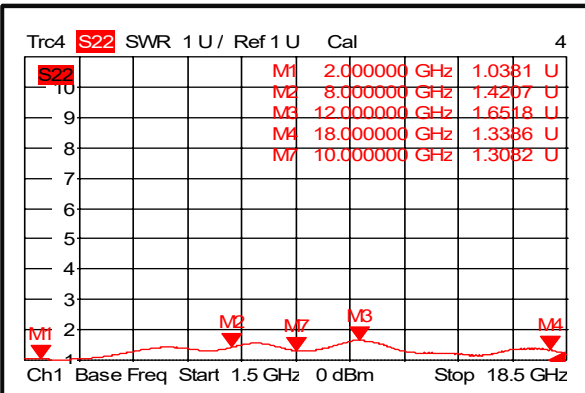
Insertion Loss @-45°C



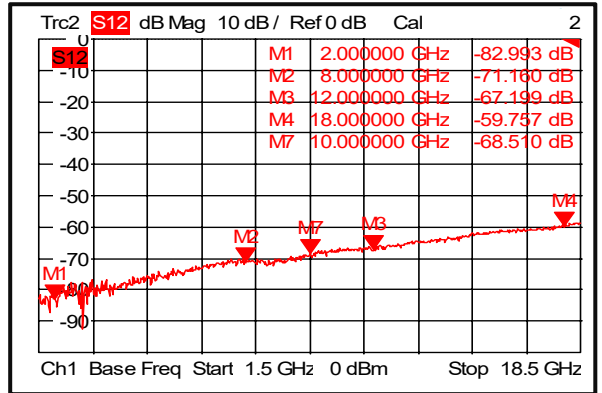
Input VSWR @-45°C



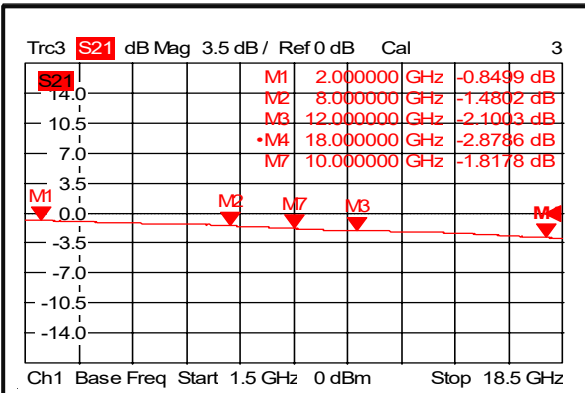
Output VSWR @-45°C



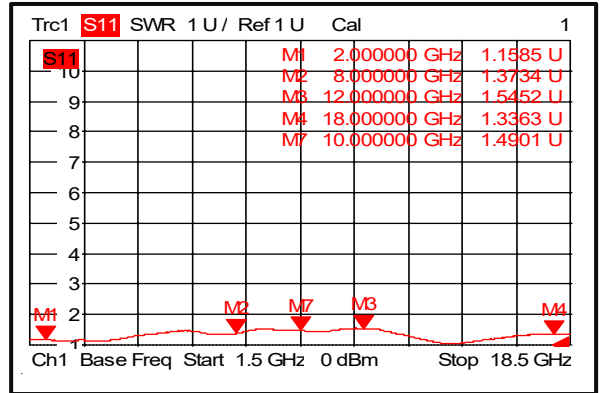
Isolation @-45°C



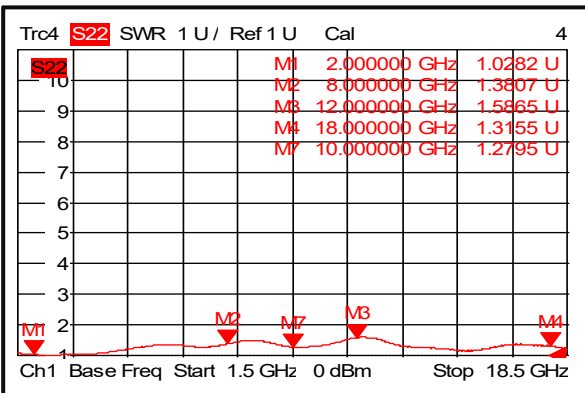
Insertion Loss @+85°C



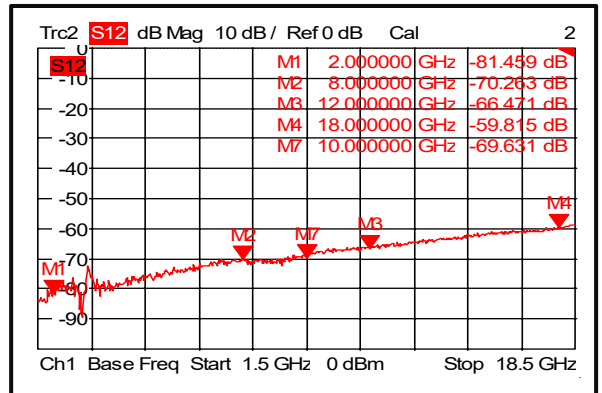
Input VSWR @+85°C



Output VSWR @+85°C



Isolation @+85°C





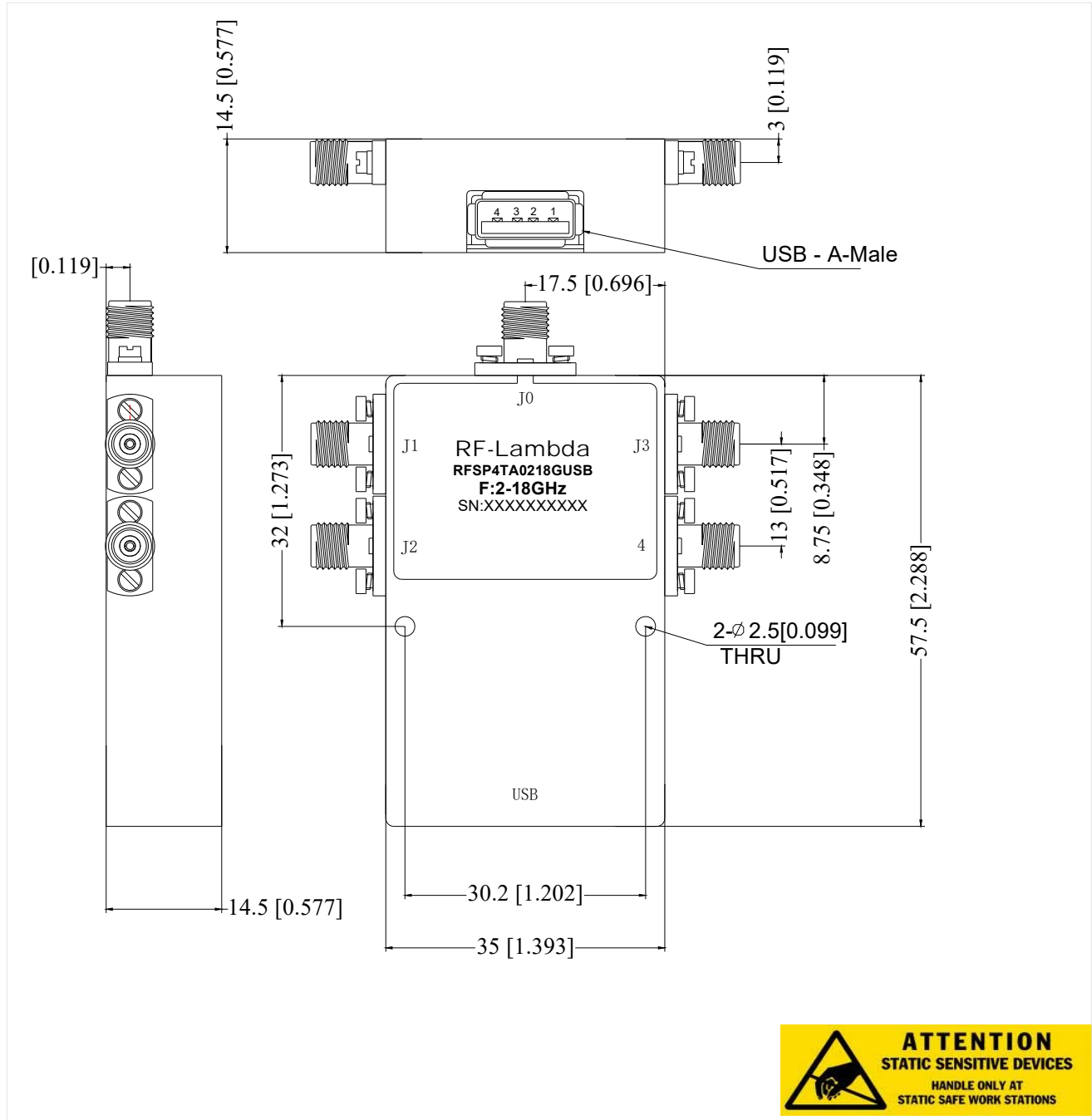
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Outline Drawing:

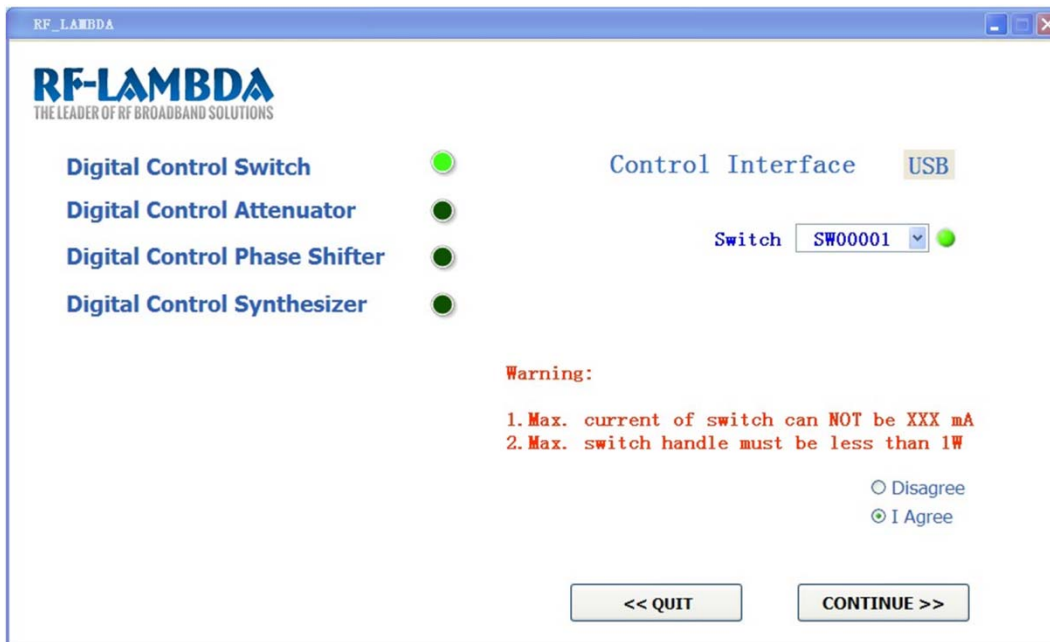
All Dimensions in mm [inches]



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Figure 1 (USB Control Panel)

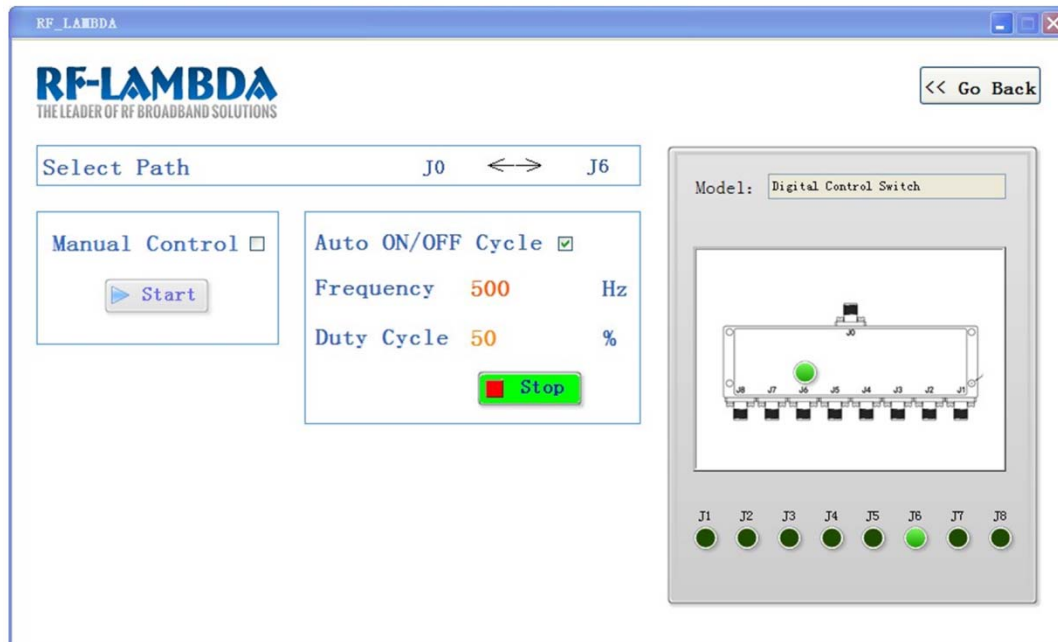
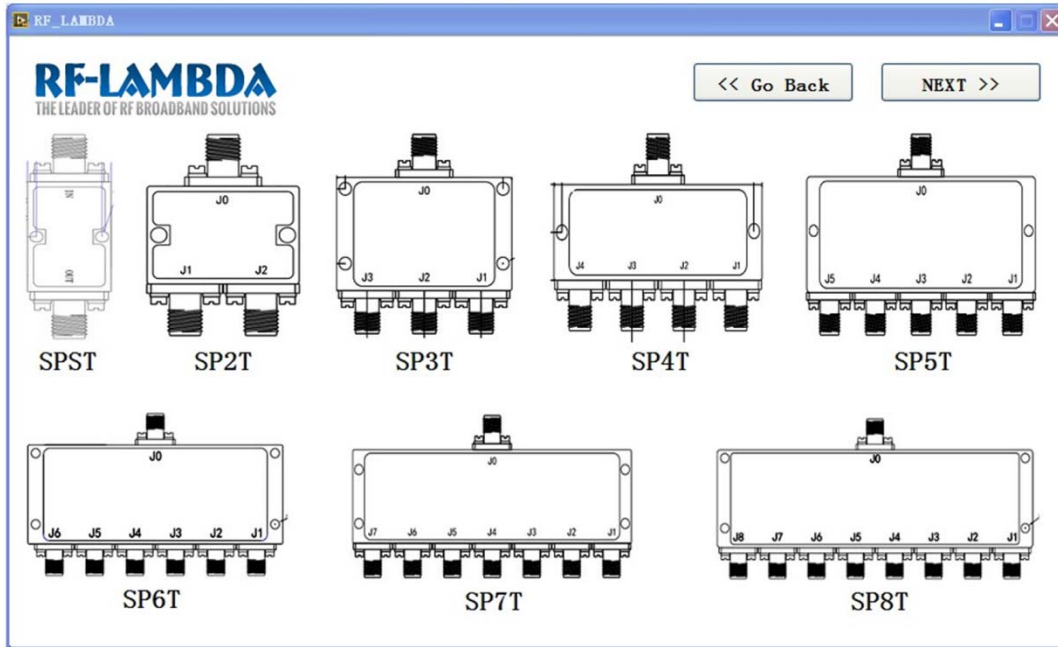




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