



# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RFSPSTA0004GUSB

### USB Absorptive Coaxial SPST Switch 0.5 - 4GHz



#### Features

- Wide Band Operation 0.5-4GHz
- 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: RFSPSTA0004GUSB              |       |     |        |
|----------------------------------------|----------------------------------|-------|-----|--------|
|                                        | SPST Absorptive Switch           |       |     |        |
|                                        | Low Power Cold Switching         |       |     |        |
| Parameters                             | Min                              | Typ.  | Max | Units  |
| Frequency Range                        | 0.5-4                            |       |     | GHz    |
| Insertion Loss                         |                                  |       | 1   | dB     |
| Insertion Loss Temperature Coefficient |                                  | 0.003 |     | dB/°C  |
| Isolation                              | 80                               |       |     | dB     |
| Input VSWR                             |                                  |       |     | : 1    |
| Output VSWR                            |                                  |       |     | : 1    |
| RF Input Power (CW)                    |                                  |       | 1   | W      |
| DC Power Dissipation                   |                                  |       |     | W      |
| 0.1dB Compression Point (Po.1dB)       |                                  |       |     | dBm    |
| IIP3                                   |                                  |       |     | 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 0.5 - 4GHz



**Absolute Maximum Ratings**

|                |        |
|----------------|--------|
| RF Input Power | +30dBm |
|----------------|--------|

**Ordering Information**

| Part No.        | ECCN  | Description                    |
|-----------------|-------|--------------------------------|
| RFSPSTA0004GUSB | EAR99 | SPST 0.5-4GHz PIN Diode Switch |

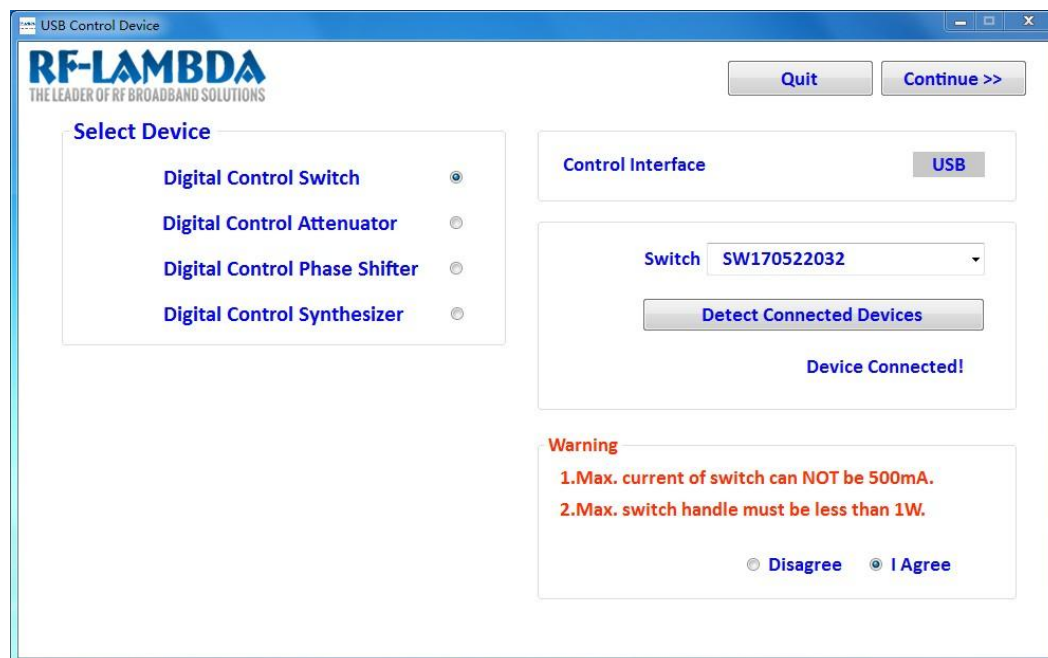
**Environmental Specifications**

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| 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 |





Figure 1 (USB Control Panel)





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