



# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RFSP4TA0618GUSB

### USB Absorptive Coaxial SP4T Switch 6 – 18GHz



#### Features

- Wide Band Operation 6-18GHz
- 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: RFSP4TA0618GUSB              |       |     |        |
|----------------------------------------|----------------------------------|-------|-----|--------|
|                                        | SP4T Absorptive Switch           |       |     |        |
|                                        | Low Power Cold Switching         |       |     |        |
| Parameters                             | Min                              | Typ.  | Max | Units  |
| Frequency Range                        | 6-18                             |       |     | GHz    |
| Insertion Loss                         |                                  |       | 3.8 | dB     |
| Insertion Loss Temperature Coefficient |                                  | 0.003 |     | dB/°C  |
| Isolation                              | 60                               |       |     | 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                        | 50ns                             |       |     |        |
| Input / Output Connectors              | SMA-Female                       |       |     |        |
| Finish                                 | Gold Plated or Nickel Plated     |       |     |        |
| Material                               | Aluminum                         |       |     |        |

USB Absorptive Coaxial Single Pole Four Throw Switch 6 – 18GHz



**Absolute Maximum Ratings**

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

**Ordering Information**

| Part No.        | ECCN  | Description                   |
|-----------------|-------|-------------------------------|
| RFSP4TA0618GUSB | EAR99 | SP4T 6-18GHz 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 |



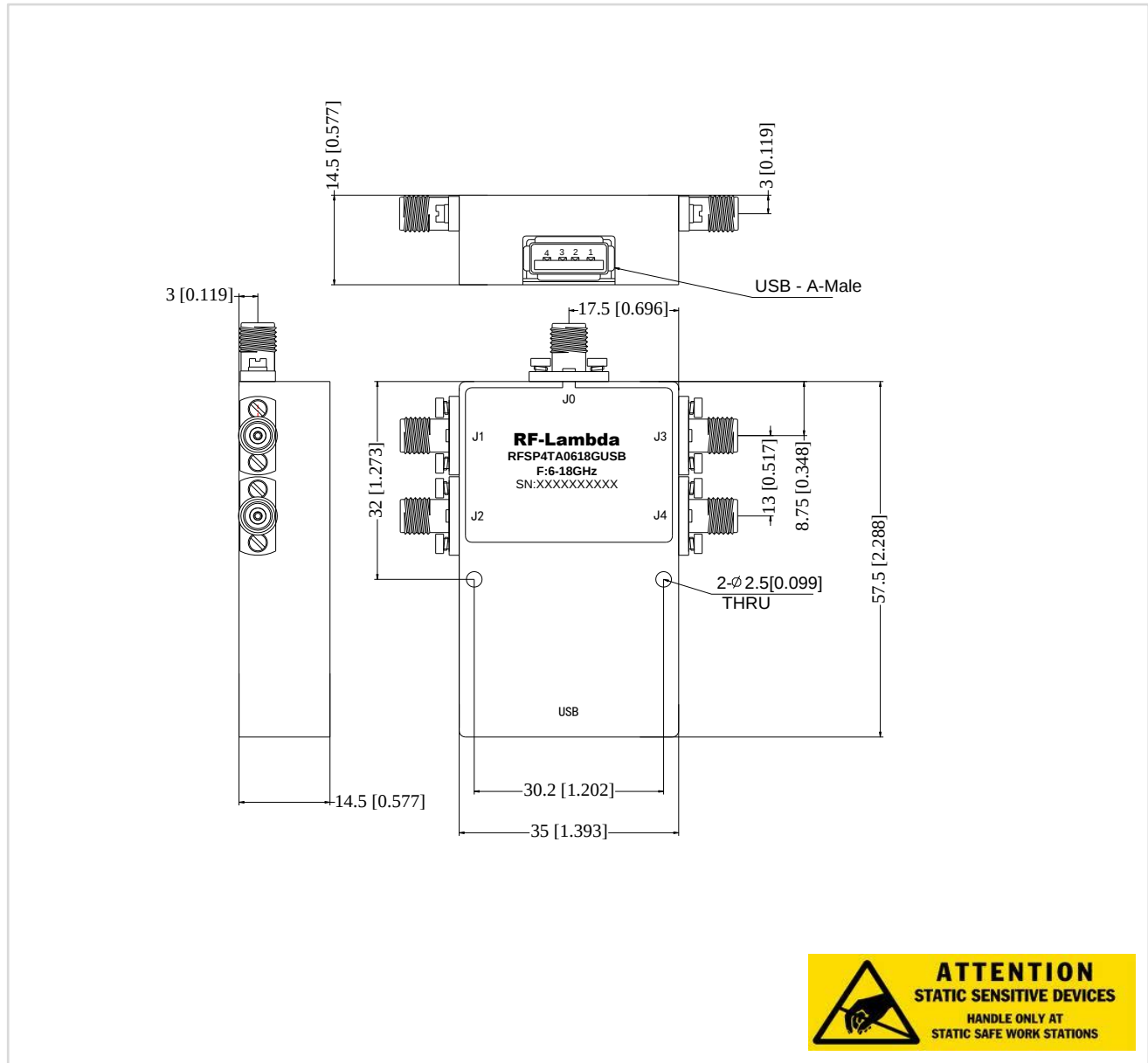
# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RFSP4TA0618GUSB

### Outline Drawing:

All Dimensions in mm [inches]



USB Absorptive Coaxial Single Pole Four Throw Switch 6 – 18GHz



Figure 1 (USB Control Panel)



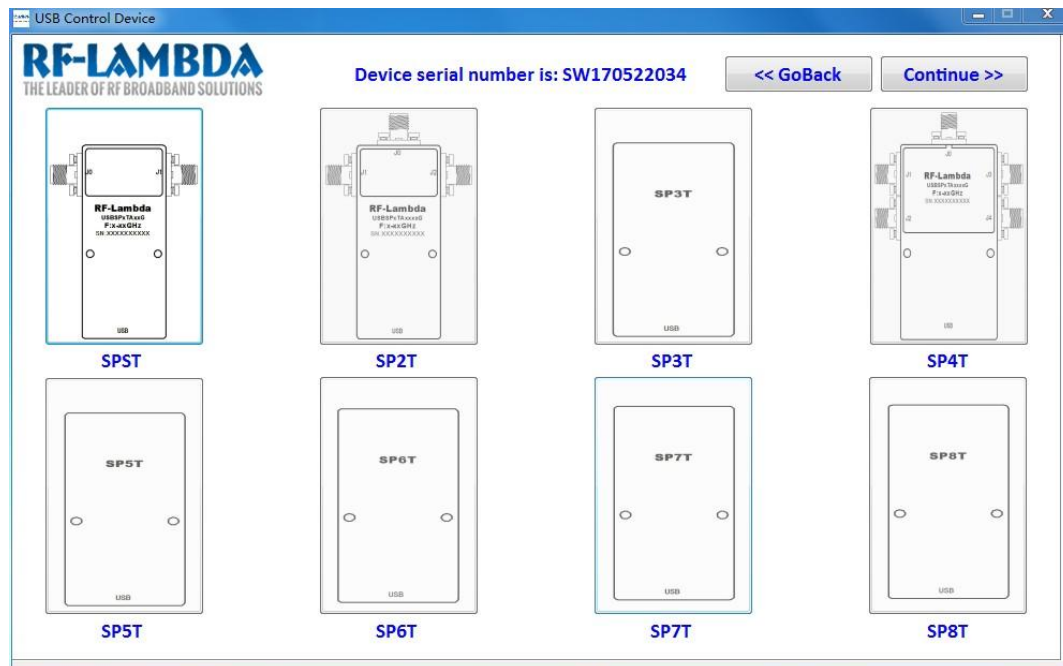


# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

## RFSP4TA0618GUSB

USB Absorptive Coaxial Single Pole Four Throw Switch 6 – 18GHz



### Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.