

**USB Controlled SPDT High Isolation PIN Diode  
 Switch 500 MHz to 18 GHz and SMA**

SDUS-0518-SPDT-SMA is a broadband high isolation SPDT Switch covering 500 MHz to 18 GHz. The Switch has a 60 dB of Isolation min, Insertion Loss of 6 dB max and Max Input Power of +20 dBm CW. The unit uses a USB connector for power.



**Electrical Specifications**

Description	Min	Typ	Max	Unit
Frequency Range	0.5		18	GHz
Insertion Loss			6	dB
Isolation	60			dB
Input VSWR		2.5:1		
Switching Speed			6	µs
Power Handling			20	dBm

**Features:**

- 0.5 GHz to 18 GHz Frequency Range
- Isolation: 60 dB min
- Insertion Loss: 6 dB max
- Max Input Power: +20 dBm CW
- USB type plug DC Positive Supply

**Applications:**

- Electronic Warfare
- Test & Measurement
- Military & Space
- Military Communication Systems
- Receiver Protection

**Mechanical Specifications**

**Size**

Length	2.25 in [57.15 mm]
Width/Dia.	1 in [25.4 mm]
Height	0.33 in [8.38 mm]

**Environmental Specifications By Design**

**Temperature**

Operating Range	-40 to +85 deg C
Storage Range	-55 to +125 deg C

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

**Plotted and Other Data**

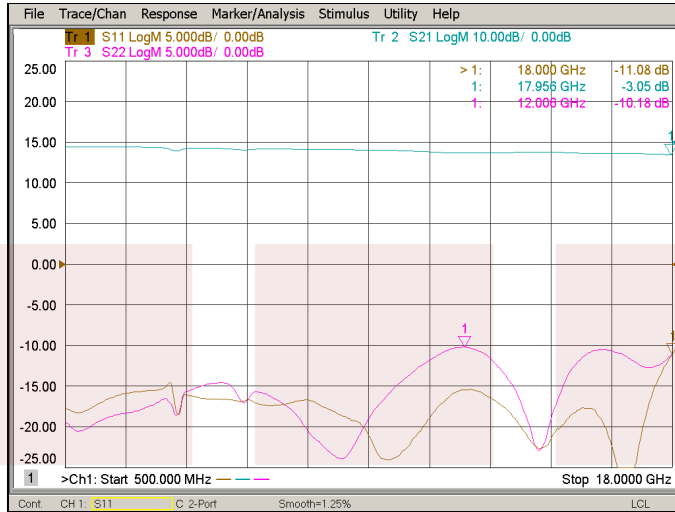
Notes:

- Values at 25 °C, sea level

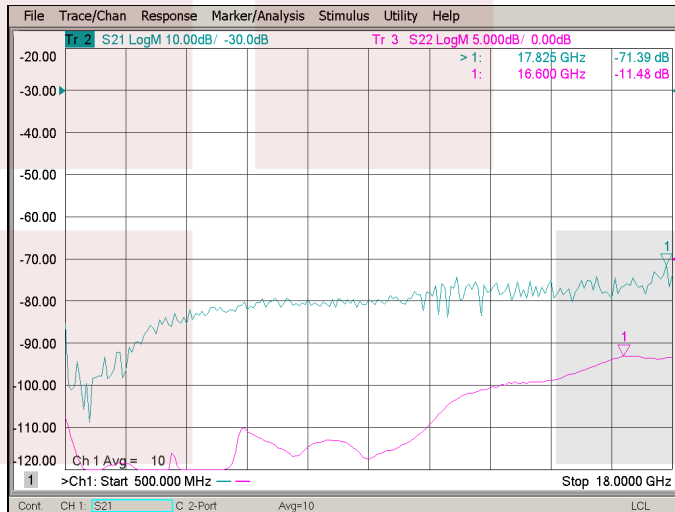
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**Typical Performance Data**

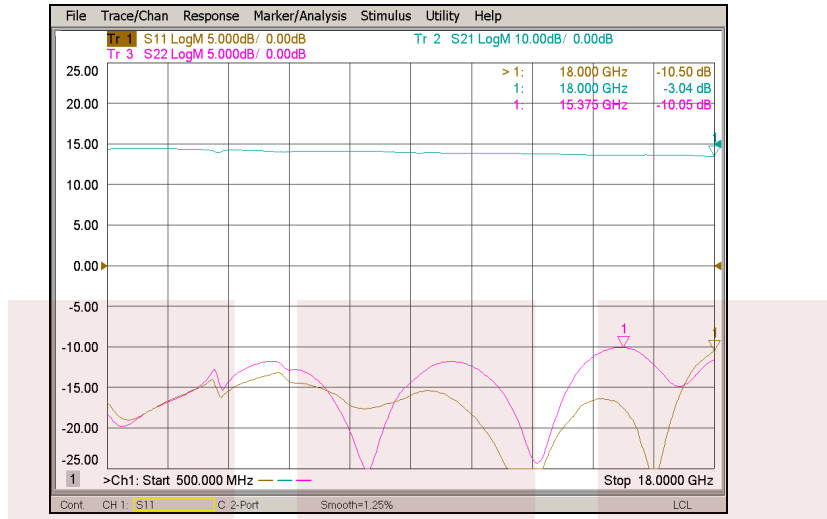
**(J1-J2) Insertion Loss and Return Loss**



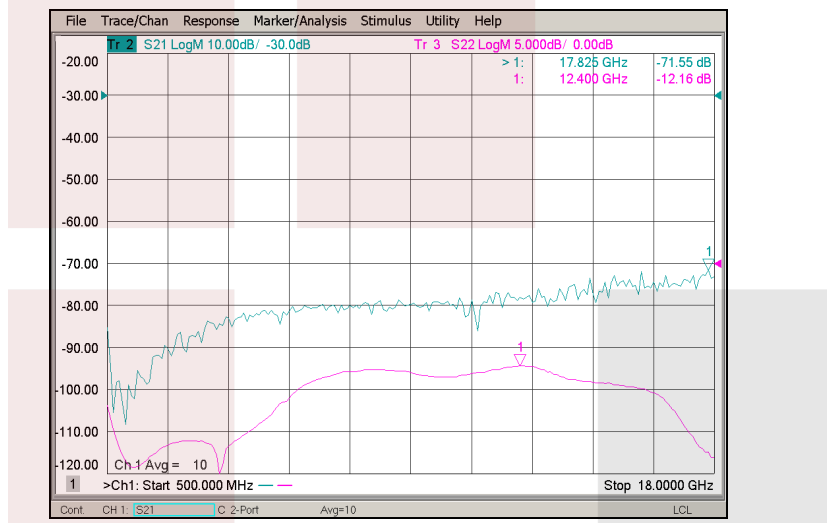
**(J1-J2) Isolation and Termination Return Loss**

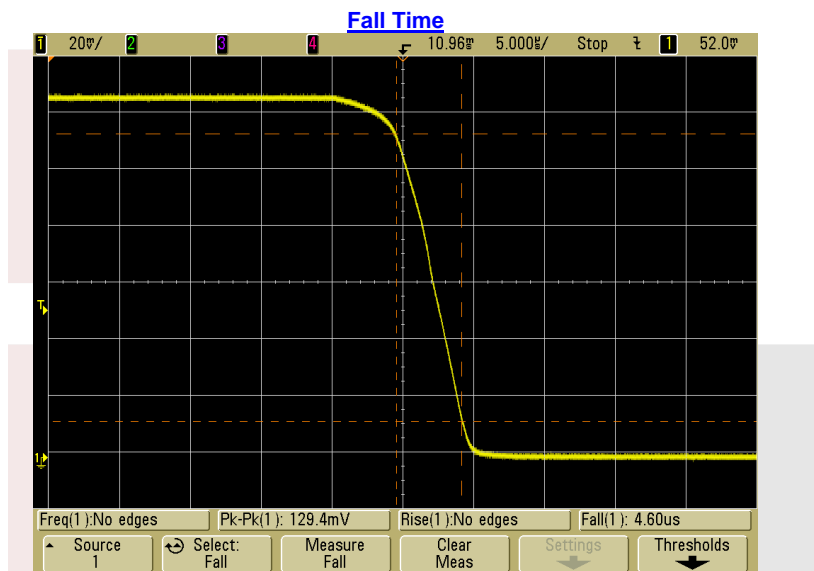
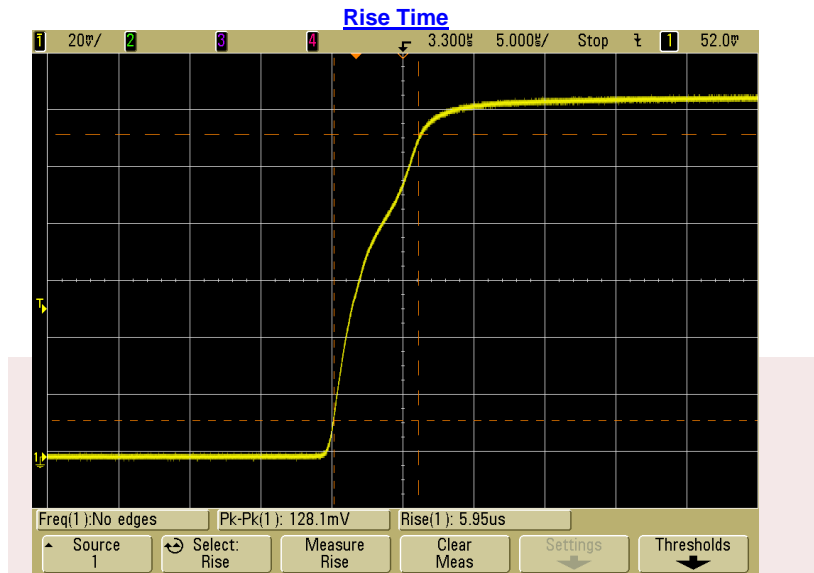


(J1-J3) Insertion Loss and Return Loss



(J1-J3) Isolation and Termination Return Loss



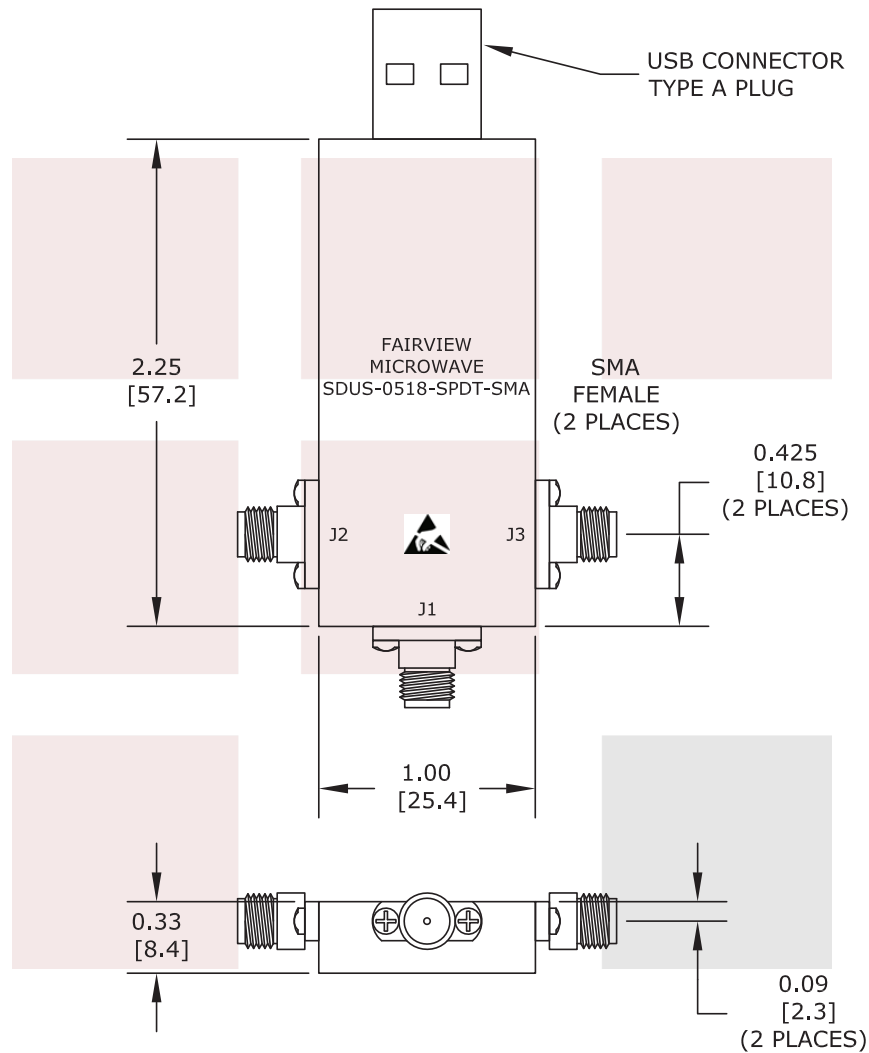


USB Controlled SPDT High Isolation PIN Diode Switch 500 MHz to 18 GHz and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [USB Controlled SPDT High Isolation PIN Diode Switch 500 MHz to 18 GHz and SMA SDUS-0518-SPDT-SMA](http://www.fairviewmicrowave.com/usb-controlled-high-isolation-pin-diode-switch-18-ghz-sdus-0518-spdt-sma-p.aspx)

URL: <http://www.fairviewmicrowave.com/usb-controlled-high-isolation-pin-diode-switch-18-ghz-sdus-0518-spdt-sma-p.aspx>

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TITLE USB Controlled SPDT High Isolation PIN Diode Switch 500 MHz to 18 GHz and SMA		DWG NO SDUS-0518-SPDT-SMA		CAGE CODE 3FKR5	
CAD FILE	032714	SHEET	SCALE	N/A	SIZE A 150