

**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 for current document)

Plotted and Other Data

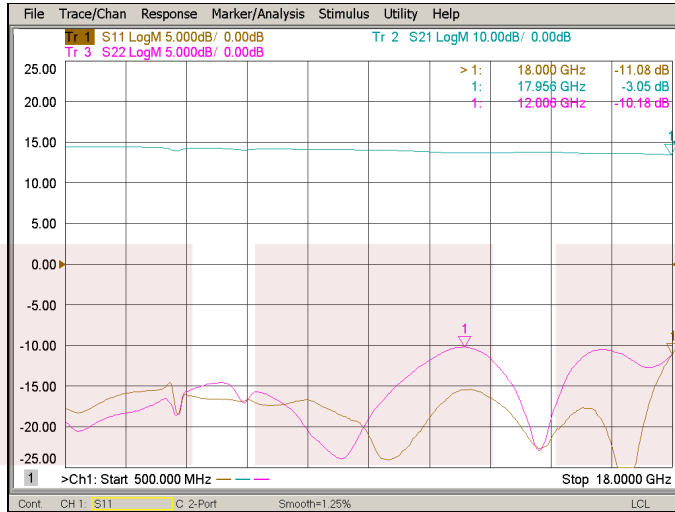
Notes:

- Values at 25 °C, sea level

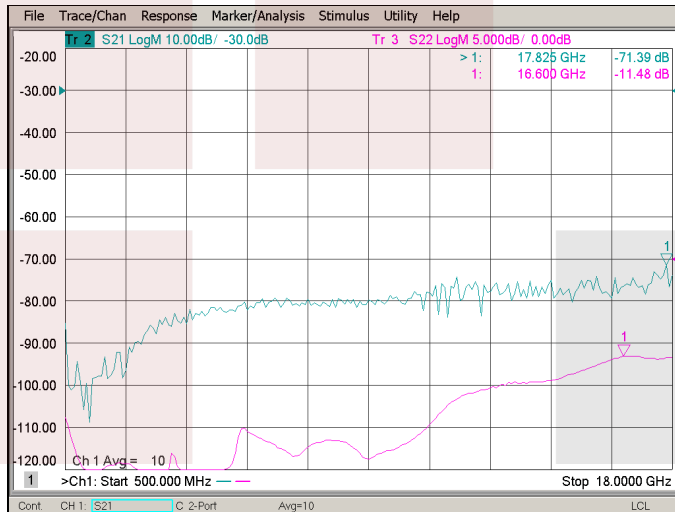
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Typical Performance Data

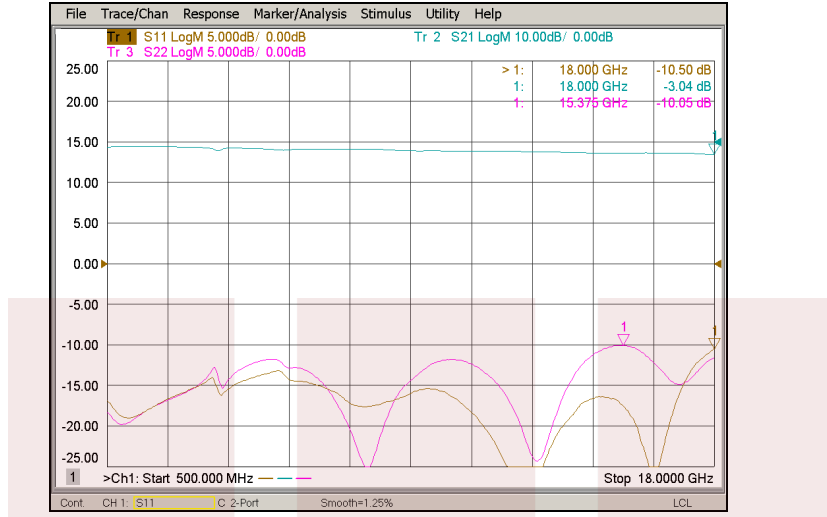
(J1-J2) Insertion Loss and Return Loss



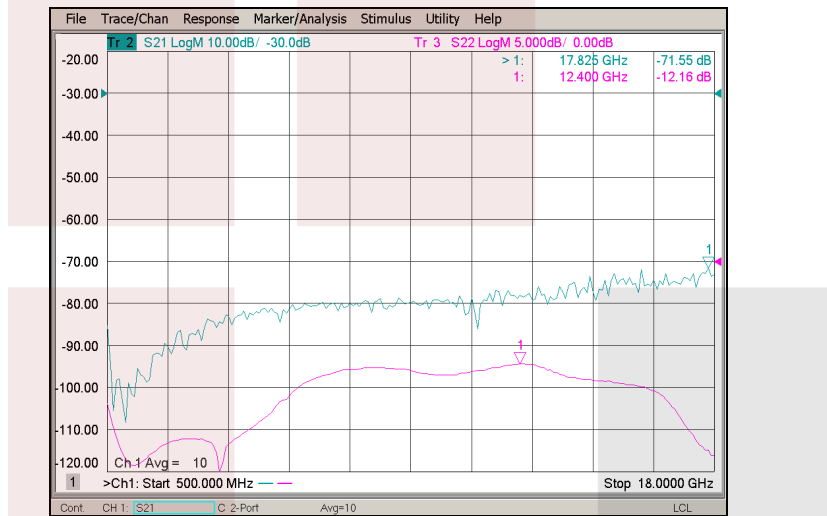
(J1-J2) Isolation and Termination Return Loss

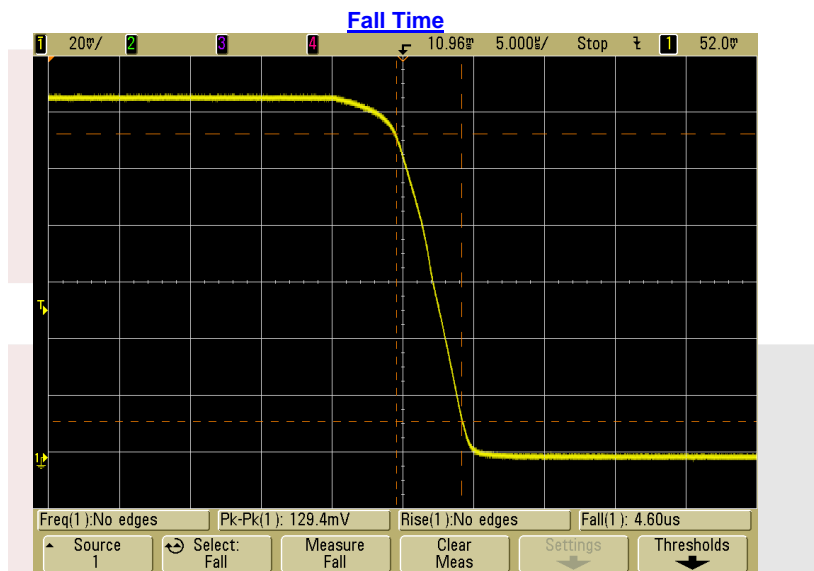
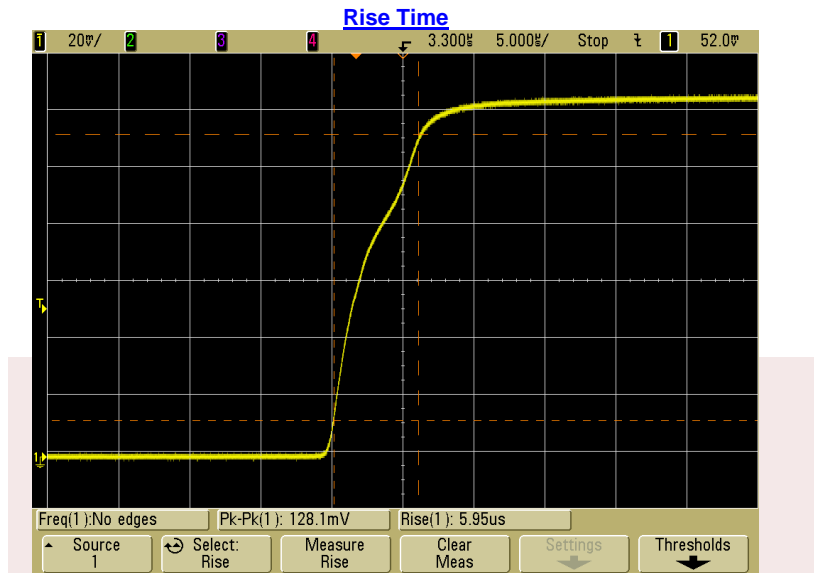


(J1-J3) Insertion Loss and Return Loss



(J1-J3) Isolation and Termination Return Loss



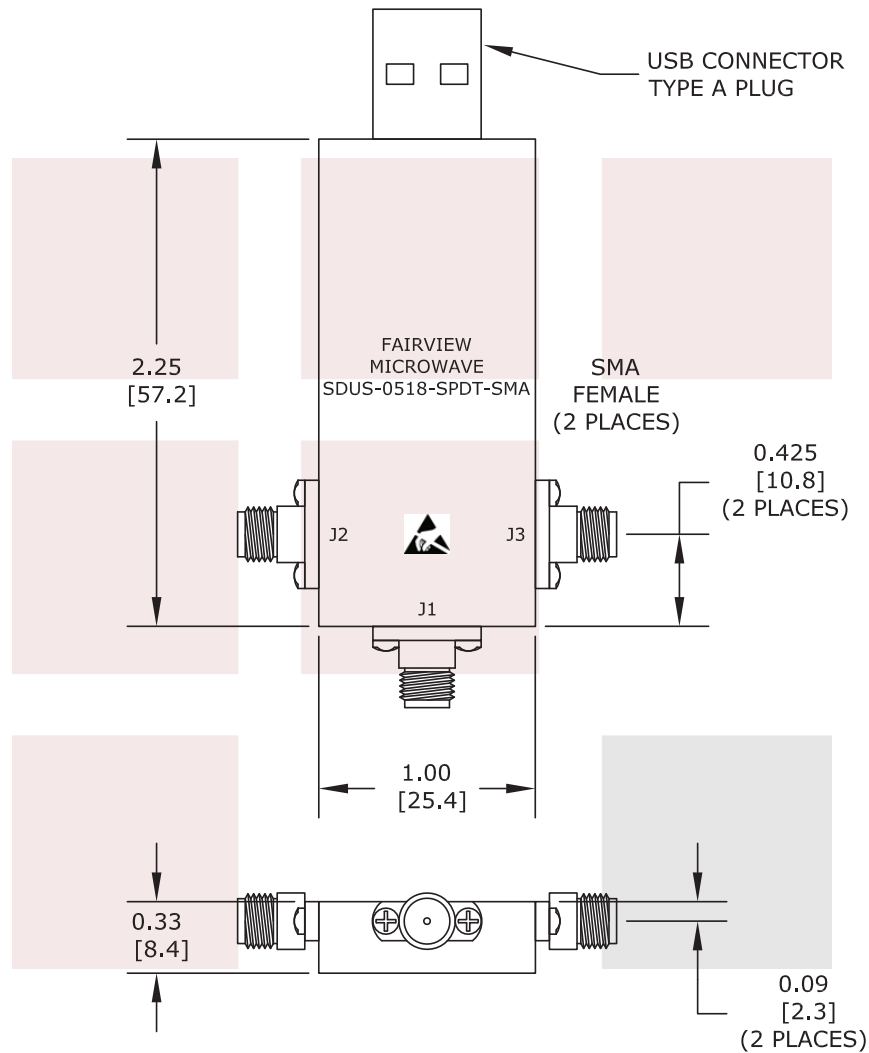


USB Controlled SPDT High Isolation PIN Diode Switch 500 MHz to 18 GHz and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

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>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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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