

USB Controlled SPDT High Isolation PIN Diode Switch 500 MHz to 40 GHz and 2.92mm

SDUS-0540-SPDT-K is a broadband high isolation SPDT Switch covering 500 MHz to 40 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		40	GHz
Insertion Loss			6	dB
Isolation	60			dB
Input VSWR		2.5:1		
Power Handling			20	dBm
Survival Power			1	Watts

Features:

- 0.5 GHz to 40 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

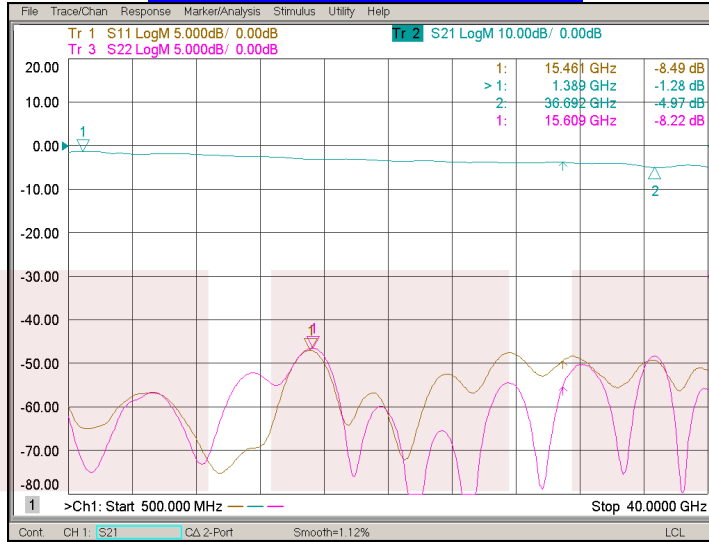
Notes:

- Values at 25 °C, sea level

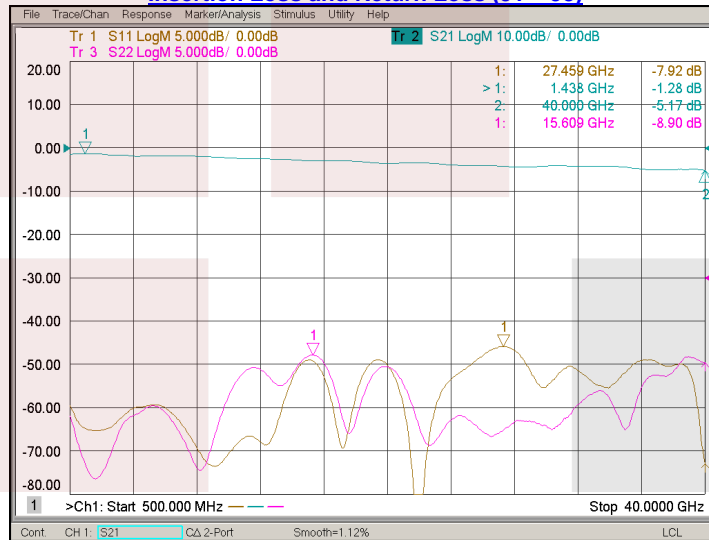
Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data

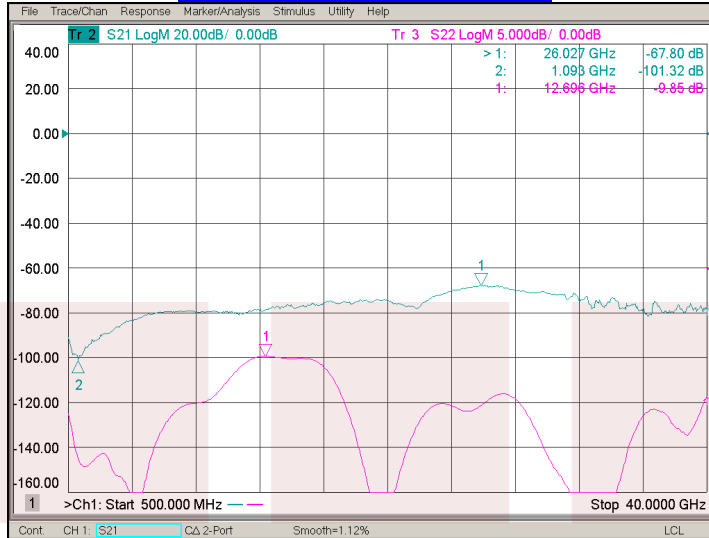
Insertion Loss and Return Loss (J1 – J2)



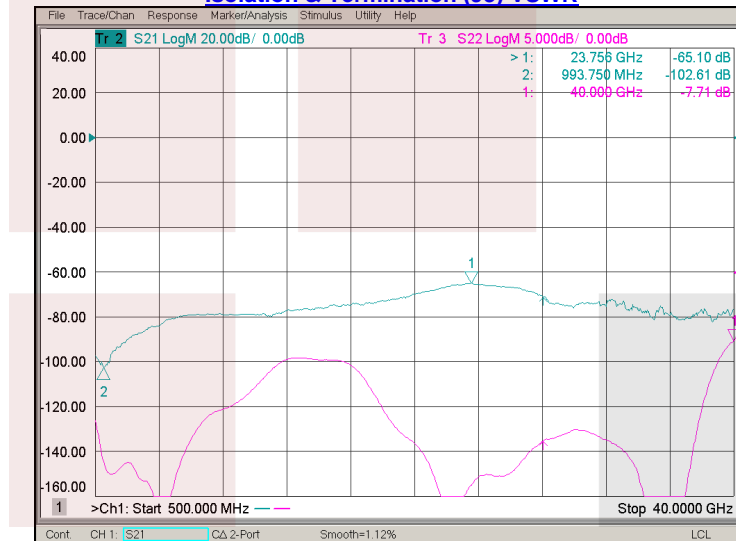
Insertion Loss and Return Loss (J1 – J3)

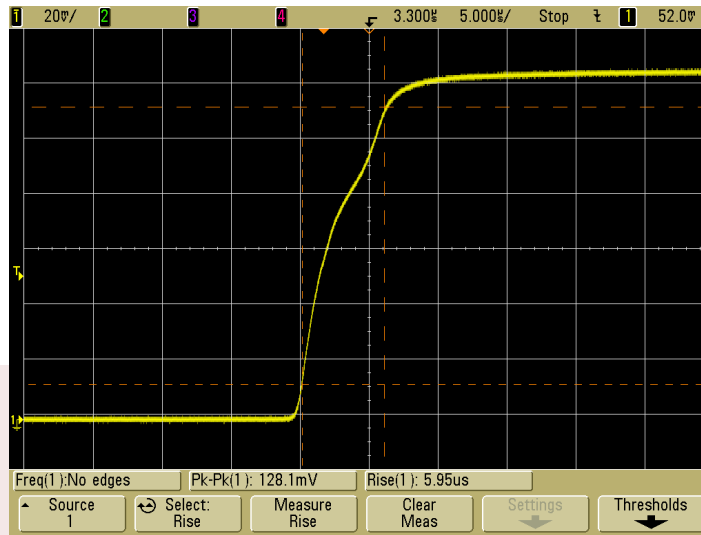


Isolation & Termination (J2) VSWR

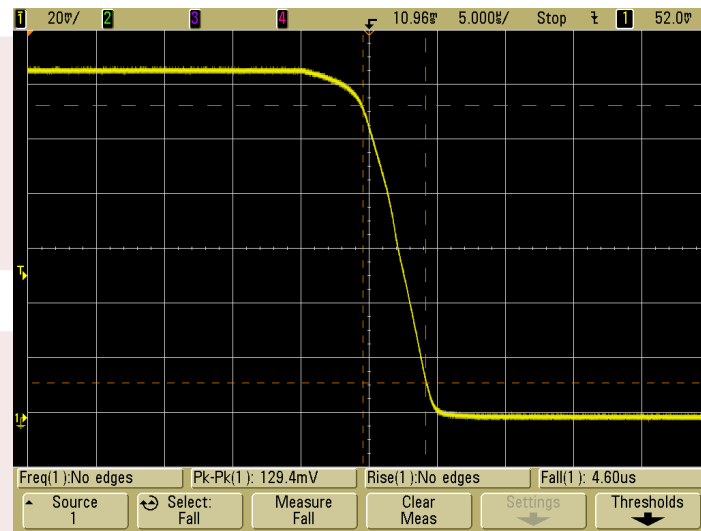


Isolation & Termination (J3) VSWR





Rise Time



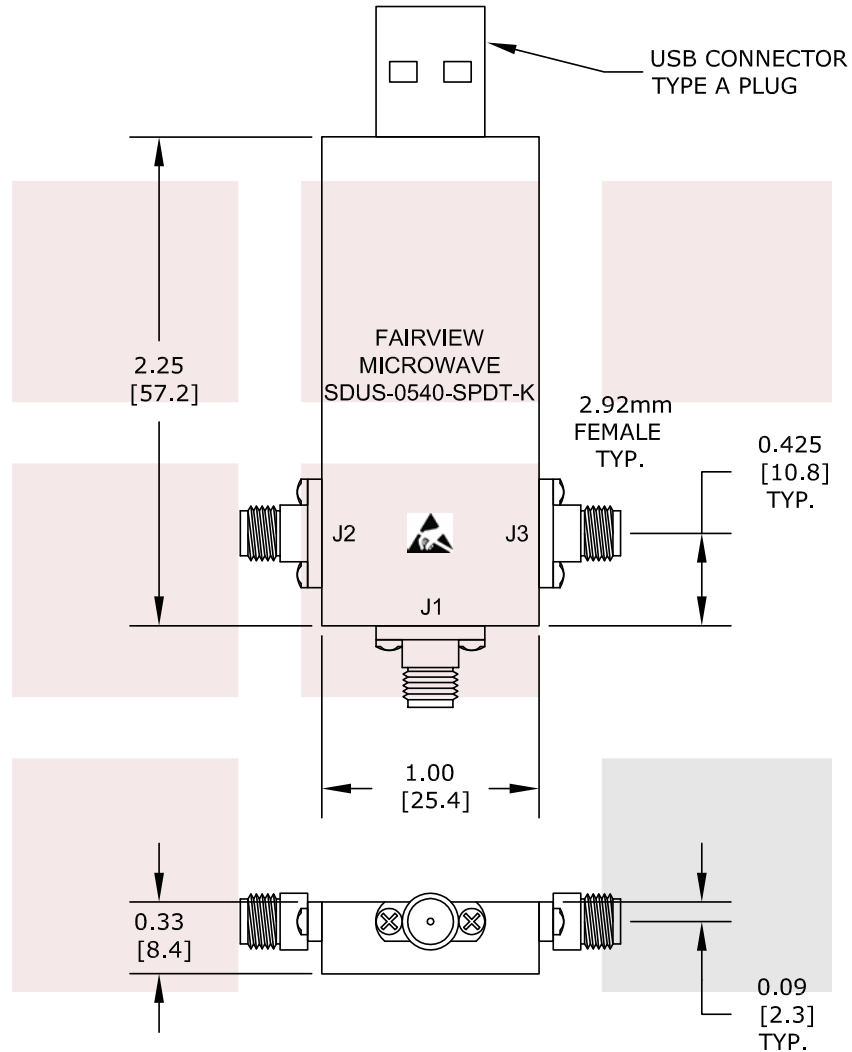
Fall Time

USB Controlled SPDT High Isolation PIN Diode Switch 500 MHz to 40 GHz and 2.92mm 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 40 GHz and 2.92mm SDUS-0540-SPDT-K](http://www.fairviewmicrowave.com/usb-controlled-high-isolation-pin-diode-switch-40-ghz-sdus-0540-spdt-k)

URL: <http://www.fairviewmicrowave.com/usb-controlled-high-isolation-pin-diode-switch-40-ghz-sdus-0540-spdt-k-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 40 GHz and 2.92mm		DWG NO SDUS-0540-SPDT-K		CAGE CODE 3FKR5	
CAD FILE	101714	SHEET	SCALE	N/A	SIZE A 150