

0 to 30 dB Programmable USB Controlled Step Attenuator With a 1 dB Step 2.92mm Female To 2.92mm Female From 100 MHz To 40 GHz

SDUA-400-030-0100-K is a 5 Bit Programmable 30 dB Pin Diode Attenuator with Step Resolution of 1 dB over the Operating Frequency Range from 0.1 GHz to 40 GHz. The Attenuator is controlled and powered via USB 2.0 with drivers installation, so no external power supply is required.



Electrical Specifications (Values at 25°C, sea level)

Description	Min	Typ	Max	Unit
Frequency Range	0.1		40	GHz
Mean Attenuation Range	0		30	dB
Insertion Loss				
20 GHz		5		dB
40 GHz		8		dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Accuracy of Attenuation to 30 dB		±2.5		dB
Step Size	1			dB

Features:

- Programmable 30 dB Pin Diode Attenuator
- 0.1 GHz to 40 GHz Frequency Range
- 30 dB Attenuation Range
- Step Resolution of 1 dB
- Insertion Loss 5 dB Typ, 8 dB typ to 40 GHz
- 2.92mm Female Input/ Output connectors

Applications:

- Electronic Warfare
- Test & Measurement
- Military & Space
- Radar
- Military Communications Systems

Mechanical Specifications

Size	
Length	2.25 in [57.15 mm]
Width	1 in [25.4 mm]
Height	0.33 in [8.38 mm]
Connector 1	2.92mm Female
Connector 2	2.92mm Female

Environmental Specifications

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Not RoHS Compliant

Plotted and Other Data

Notes:

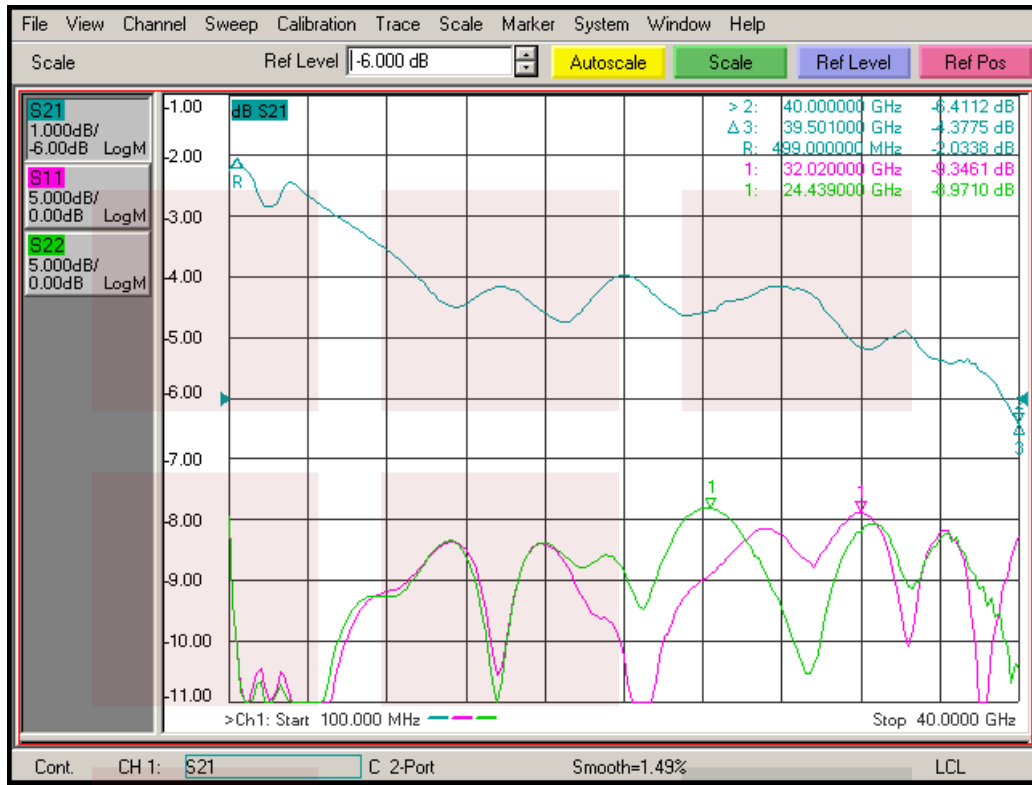
- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.



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Typical Performance Data

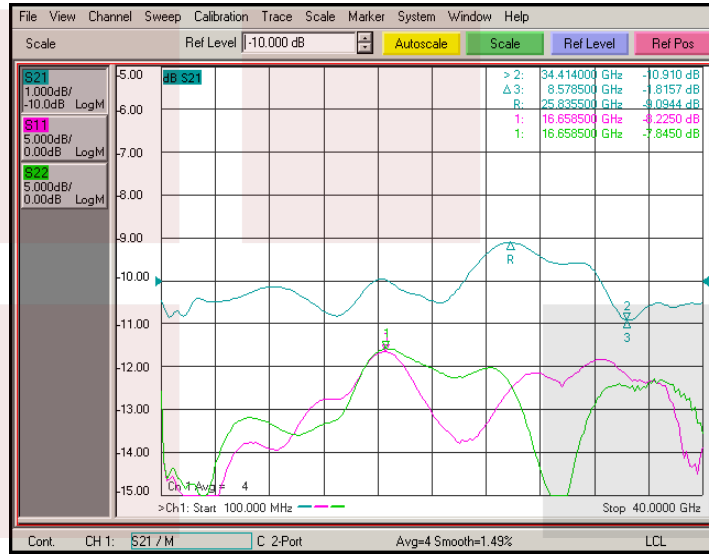
Insertion Loss & Return Loss



5dB Attenuation



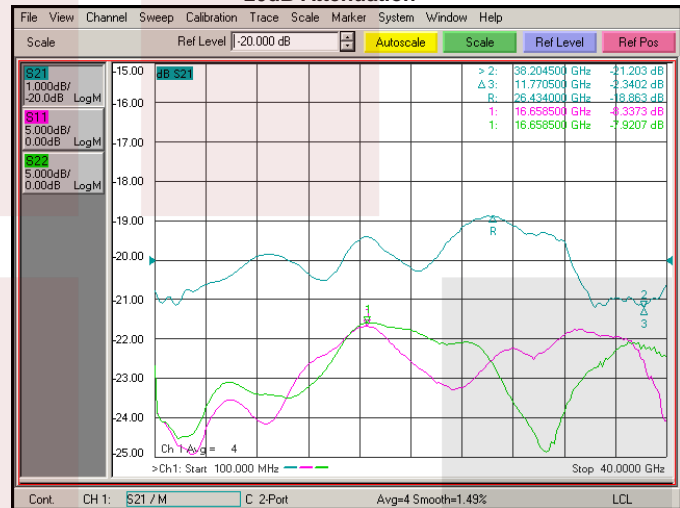
10dB Attenuation



15dB Attenuation



20dB Attenuation



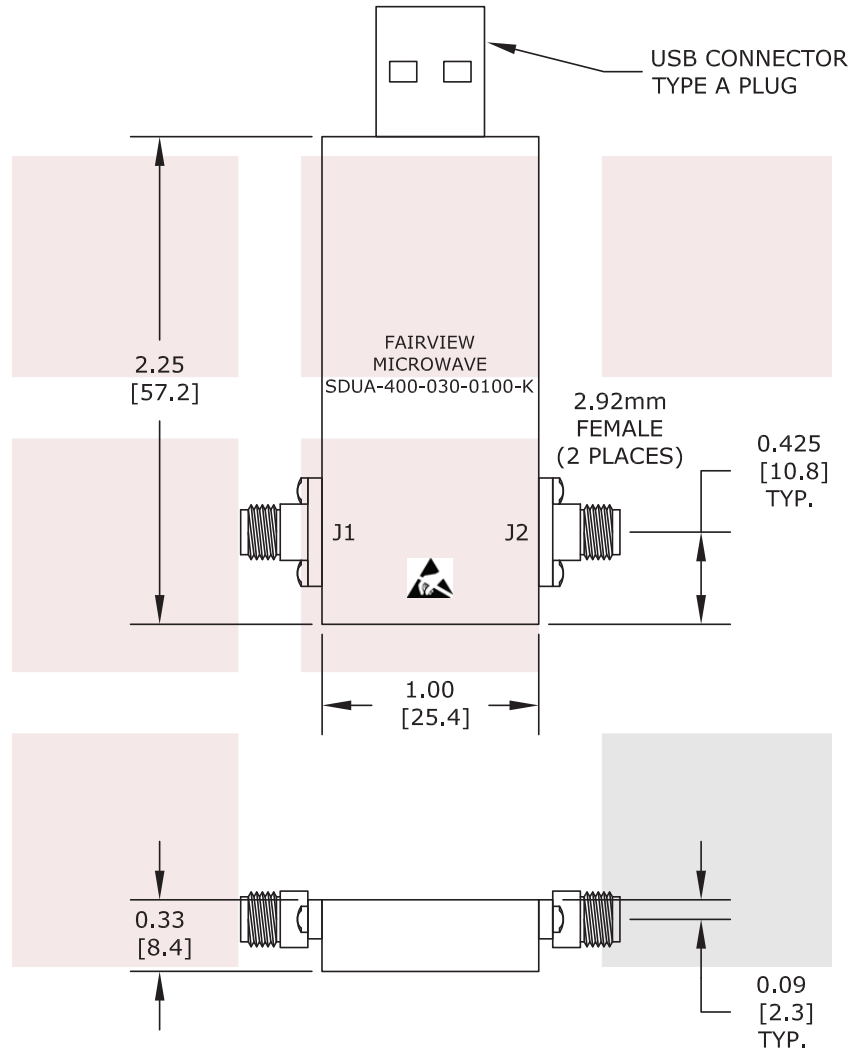


0 to 30 dB Programmable USB Controlled Step Attenuator With a 1 dB Step 2.92mm Female To 2.92mm Female From 100 MHz To 40 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [0 to 30 dB Programmable USB Controlled Step Attenuator With a 1 dB Step 2.92mm Female To 2.92mm Female From 100 MHz To 40 GHz SDUA-400-030-0100-K](http://www.fairviewmicrowave.com/30-db-usb-controlled-step-attenuator-2.92mm-female-sdua-400-030-0100-k)

URL: <http://www.fairviewmicrowave.com/30-db-usb-controlled-step-attenuator-2.92mm-female-sdua-400-030-0100-k-p.aspx>

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TITLE 0 to 30 dB Programmable USB Controlled Step Attenuator With a 1 dB Step 2.92mm Female To 2.92mm Female From 100 MHz To 40 GHz		DWG NO SDUA-400-030-0100-K		CAGE CODE 3FKR5	
CAD FILE	101714	SHEET	SCALE	N/A	SIZE A 150