SPECIFICATION SHEET

JFW MODEL 50P-2103

USB CONTROLLED SOLID STATE PROGRAMMABLE ATTENUATOR

JFW Industries, Inc. Phone: 317-887-1340 sales@jfwindustries.com www.jfwindustries.com

Frequency Range 0.1-18 GHz

Impedance 50 Ohms nominal

Attenuation Range 0-63 dB in 0.5 dB steps

Attenuation Steps 0.5, 1, 2, 4, 8, 16 and 32 dB

VSWR 1.6:1 maximum 0.1-6 GHz

2.0:1 maximum 6-18 GHz

Attenuation Accuracy \pm 0.25 dB 0.5-3.5 dB

± 0.50 dB 4-14.5 dB ± 0.75 dB 15-31.5 dB

± 1.00 dB or 2% 32-63 dB (whichever is greater)

Insertion Loss 7.0 dB maximum

2.0 dB typical @ 0.1 GHz 2.7 dB typical @ 3 GHz 3.2 dB typical @ 6 GHz 4.5 dB typical @ 12.4 GHz 6.4 dB typical @ 18 GHz

RF Input Power +24 dBm (operating - Input Side)

+24 dBm (operating - Input Side) +15 dBm (operating - Output Side)

+25 dBm (no damage - Input Side) +16 dBm (no damage - Output Side)

Switching Speed 1 microsecond maximum

0.35 microseconds typical

DC Supply +5 Vdc @ 2mA nominal

Control USB control

Test Software The included JFW software allows control of multiple

(Microsoft .NET 4.0+) USB devices. JFW managed library available for

(Windows Vista or greater) development in user made applications.

DC Connector USB MINI-B

6' USB A to USB Mini-B Cable Included

RF Connector SMA

Operating Temperature Range $-40\,^{\circ}\text{C}$ to $+85\,^{\circ}\text{C}$

Physical Size See outline drawing 092-9407

ECR/ECN	# DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	10/17/2019		CLK 10/17/2019				
30373	05/06/2020	A	TRS 05/06/2020				
30836	12/21/2020	В	TRS 12/21/2020				

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