

**SPECIFICATION SHEET**

**JFW MODEL 50P-2107**

**USB CONTROLLED SOLID STATE PROGRAMMABLE  
ATTENUATOR**

JFW Industries, Inc.  
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Frequency Range 200-8400 MHz

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

Attenuation Accuracy ± 0.25 dB 0.5-6.5 dB  
± 0.50 dB 7-14.5 dB  
± 1.00 dB or 3% 15-63 dB  
(whichever is greater)

Insertion Loss 4.2 dB maximum  
2.1 dB typical @ 200 MHz  
4.0 dB typical @ 8400 MHz

RF Input Power +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  
(Microsoft .NET 4.0+) control of multiple USB devices. JFW  
(Windows Vista or greater) managed library available for  
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°C to +85°C

Physical Size See outline drawing 092-9407

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	09/25/2020		CLK 09/25/2020				
32622	07/07/2023	A	CLK 07/07/2023				