

SPECIFICATION SHEET**JFW MODEL 50P-2130****SOLID STATE PROGRAMMABLE ATTENUATOR**

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

Frequency Range	1-1000 MHz
Impedance	50 Ohms nominal
Attenuation Range	0-95 dB in 1 dB steps
Attenuation Steps	1, 2, 4, 8, 16 , 32 and 32 dB
VSWR	1.7:1 maximum
Attenuation Accuracy (guaranteed monotonic)	± 0.50 dB 1-7 dB ± 1.00 dB 8-11 dB ± 1.25 dB or 3% 12-95 dB (whichever is greater)
Insertion Loss	4 dB maximum
RF Input Power (frequency dependent)	Maximum Operating Power: +18 dBm (1-2 MHz) +21 dBm (2-5 MHz) +24 dBm (5-10 MHz) +26 dBm (10-20 MHz) +27 dBm (20-1000 MHz) Absolute Maximum Input Power: +24 dBm (1-2 MHz) +27 dBm (2-5 MHz) +30 dBm (5-10 MHz) +32 dBm (10-20 MHz) +33 dBm (20-1000 MHz) Temporary Input Power between the Maximum Operating Power and Absolute Maximum Input Power can degrade linearity and reliability of the attenuator with repeated use. Input power above Absolute Maximum Input Power can cause damage with any use.
DC Bias on RF	± 0.2 Vdc maximum on RF connector Recommend external DC block for protection if needed

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Switching Speed 4 microseconds maximum
 0.7 microseconds typical

DC Supply +5Vdc @ 2mA nominal

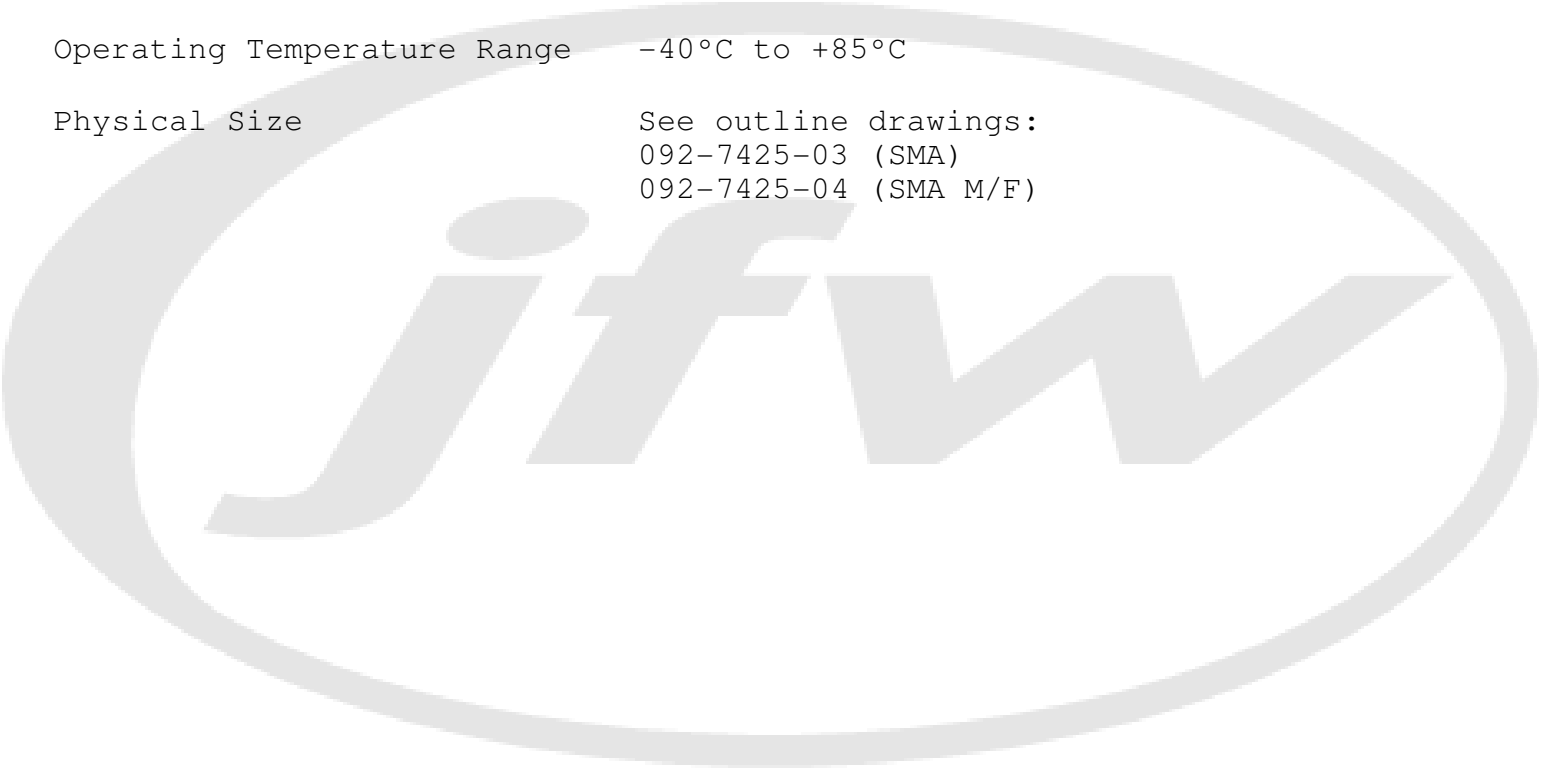
Control Logic (7 Lines) TTL Low for Thru Path (+0 to +0.8 Vdc)
 TTL High for Attenuation (+2 to +5 Vdc)

DC Connector 3M #D2510-6002
 (Mating Connector 3M #3473-6610)

RF Connector SMA female

Operating Temperature Range -40°C to +85°C

Physical Size See outline drawings:
 092-7425-03 (SMA)
 092-7425-04 (SMA M/F)



ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	08/09/2023		CLK 08/09/2023				