

SPECIFICATION SHEET

JFW MODEL 50P-1851

SOLID STATE PROGRAMMABLE ATTENUATOR

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

Frequency Range 200-6000 MHz

Impedance 50 Ohms nominal

Attenuation Range 0-63.5 dB in 0.5 dB steps

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

VSWR 1.8:1 maximum
< 1.6:1 typical

Attenuation Accuracy (guaranteed monotonic) ± 0.50 dB 0.5-7.5 dB
± 0.75 dB 8.0-15.5 dB
± 1.00 dB or 3% 16.0-63.5 dB
(whichever is greater)

Insertion Loss 6.0 dB maximum
2.3 dB typical @ 200 MHz
2.5 dB typical @ 800 MHz
3.1 dB typical @ 2000 MHz
5.4 dB typical @ 6000 MHz

RF Input Power* +28 dBm (operating)
+34 dBm (no damage)

Switching Speed 3 microseconds maximum
< 1 microsecond typical

DC Supply +5Vdc @ 2mA nominal

Control Logic (7 Lines) TTL Low for Thru Path
TTL High for Attenuation

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

RF Connector SMA

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

Physical Size See outline drawing:
092-7462-07 (SMA)
092-7462-08 (SMA Male/Female)

* Units shipped before 11/6/2016 (date code 1645) are only rated at +20dBm maximum. The JFW date code is a four digit code (YYWW) that follows the six digit serial number. For example date code 1908 is the 8th week of 2019.

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
22505	02/27/2013	E	CLK 02/27/2013	27615	02/28/2017	H	CLK 02/28/2017
27058	09/13/2016	F	CLK 09/13/2016	29124	11/06/2018	I	CLK 11/06/2018
27244	11/09/2016	G	CLK 11/09/2016	29857	10/02/2019	J	TRS 10/02/2019