

**SPECIFICATION SHEET**

**JFW MODEL 50P-1857**

**SOLID STATE PROGRAMMABLE ATTENUATOR**

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Frequency Range 200-6000 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 2.0:1 maximum  
< 1.9:1 typical 200-700 MHz  
< 1.6:1 typical 700-6000 MHz

Attenuation Accuracy ± 0.50 dB 1-7 dB  
± 1.00 dB 8-11 dB  
± 1.25 or 4% 12-95 dB  
(whichever is greater)  
(guaranteed monotonic)

Insertion Loss 8.3 dB maximum  
3.3 dB typical @ 200 MHz  
3.5 dB typical @ 500 MHz  
3.6 dB typical @ 700 MHz  
4.4 dB typical @ 2000 MHz  
7.9 dB typical @ 6000 MHz

RF Input Power +27 dBm (operating)  
+33 dBm (no damage)

Switching Speed 4 microseconds maximum  
0.7 microseconds typical

DC Supply +5 Vdc @ 2 mA nominal

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

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
22504	02/11/2013	C	CLK 02/11/2013	28504	02/13/2018	F	TRS 02/13/2018
25755	09/17/2015	D	TRS 09/17/2015	29124	11/06/2018	G	CLK 11/06/2018
28156	10/05/2017	E	CLK 10/05/2017	29144	11/12/2018	H	TRS 11/12/2018