

**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)

\* Units shipped before 10/5/2017 (date code 1740) 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
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
28504	02/13/2018	F	TRS 02/13/2018	29857	10/02/2019	I	TRS 10/02/2019