

**SPECIFICATION SHEET**

**JFW MODEL 50P-2157**

**2 CHANNEL USB CONTROLLED SOLID STATE  
PROGRAMMABLE ATTENUATOR**

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Frequency Range	30-3000 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 30-700 MHz 1.6:1 maximum 700-3000 MHz
Attenuation Accuracy (guaranteed monotonic)	± 0.50 dB 1-7 dB ± 1.00 dB 8-11 dB ± 1.25 or 3% 12-95 dB (whichever is greater)
Insertion Loss	5 dB maximum 2.7 dB typical @ 30 MHz 3.2 dB typical @ 700 MHz 4.5 dB typical @ 3000 MHz
Isolation (channel-to-channel)	> 120dB typical
RF Input Power	+27 dBm (operating) +33 dBm (no damage)
Switching Speed	4 microseconds maximum (after command is received and processed) (1 millisecond typical processing time)
DC Supply	+5 Vdc @ 110mA typical (Powered via USB)
Control	USB control (CDC-ACM Serial Device)
Test Software (Microsoft .NET 4.0+) (Windows Vista or greater)	The included JFW software allows control of multiple USB devices.  Unit is also compatible with Python, C#, PuTTY (any development tool with COM Port interfacing).
DC Connector	USB-C 2 meter USB A Male to USB-C Cable Included
RF Connector	SMA female
Operating Temperature Range	-40°C to +85°C
Physical Size	See outline drawings 092-10317

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