

SPECIFICATION SHEET
JFW MODEL 50P-591
RELAY PROGRAMMABLE ATTENUATOR

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Frequency Range	DC-3000 MHz
Impedance	50 Ohms nominal
Attenuation Range	0-85 dB in 1 dB steps
Attenuation Steps	1, 2, 4, 8, 10, 20, and 40 dB
VSWR	1.5:1 maximum 1.4:1 typical
Attenuation Accuracy	± .3 dB or 0.5% DC-500 MHz ± .4 dB or 1.0% 500-1000 MHz ± .5 dB or 1.0% 1000-2000 MHz ± .6 dB or 1.5% 2000-3000 MHz (whichever is greater)
Insertion Loss	3.0 dB maximum DC-1000 MHz 4.0 dB maximum 1000-2000 MHz 5.0 dB maximum 2000-3000 MHz
Repeatability	± 0.05 dB @ 2.0 GHz typical ± 0.10 dB @ 2.5 GHz typical ± 0.15 dB @ 3.0 GHz typical
RF Input Power	1 Watt average
Switching Speed	6 milliseconds
Control	+12 Vdc @ 30 mA per relay
Lifetime (typical)	10 million cycles per relay
DC Connector	Solder terminals
RF Connector	N or SMA female
Operating Temperature Range	-40°C to +95°C
Physical Size	See outline drawing 092-1285

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	02/27/1989			27192	10/24/2016	C	CLK 10/24/2016
9999	10/05/2002	A	TRS 10/24/2002				
11007	04/13/2005	B	CLK 04/13/2005				