SPECIFICATION SHEET

JFW MODEL 50P-909

RELAY PROGRAMMABLE ATTENUATOR

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

Frequency Range	9 KHz-3 GHz
Impedance	50 Ohms nominal
Attenuation Range	0-56 dB in 8 dB steps
Attenuation Steps	8, 16, and 32 dB
VSWR	1.35:1 maximum
Attenuation Accuracy	± 0.5 dB (8,16,32dB) Individually ± 0.5 dB or 2% (any combination) (whichever is greater)
Insertion Loss	1.0 dB maximum 9 kHz-1 GHz 1.5 dB maximum 1 GHz-2 GHz 2.0 dB maximum 2 GHz-3 GHz
RF Input Power	1 Watt average 100 Watts peak
DC Block	50 Volts
RF Leakage	-90 dBc minimum
Repeatability	0.03 dB pk/pk 9 kHz-300 MHz 0.2 dB pk/pk 300 MHz-2 GHz 0.3 dB pk/pk 2 GHz-3 GHz
Switching Speed	10 milliseconds
DC Supply	+12 Vdc @ 30 mA per relay
Control (3 lines)	Relays are activated when pulled to ground or negative side of supply
DC Connector	.040 Diameter solder terminals
RF Connector	SMA female
Operating Temperature Range	0°C to +70°C
Physical Size	See outline drawing 092-1505

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Order of Tests for 50P-909:

1) Relay bounce test

2) Network Analyzer tests

3) Cool units at -10°C for 30 minutes.
   Remove one at a time and test 32 dB accuracy.

4) Heat units at +55°C for 30 minutes.
   Remove one at a time and test 32 dB accuracy.

5) Final sweep at room temperature.

6) 9kHz test

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	07/15/1992			11461	07/08/2005	C	BAC 07/08/2005
9999	11/01/2002	A	TRS 12/13/2002	12305	01/09/2006	D	TRS 01/09/2006
10815	03/14/2005	B	CLK 03/14/2005				