

SPECIFICATION SHEET

JFW MODEL 50P-2072

SOLID STATE PROGRAMMABLE ATTENUATOR

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

Frequency Range 0.1-40 GHz

Impedance 50 Ohms nominal

Attenuation Range 0-31 dB in 1 dB steps

Attenuation Steps 1, 2, 4, 8 and 16 dB

VSWR 1.5:1 typical / 1.8:1 maximum 0.1-8 GHz
1.6:1 typical / 1.8:1 maximum 8-18 GHz
1.8:1 typical / 2.0:1 maximum 18-33 GHz
1.9:1 typical / 2.4:1 maximum 33-40 GHz

Insertion Loss 3.5 dB typical 0.1-8 GHz
5.0 dB typical 8-18 GHz
6.8 dB typical 18-33 GHz
8.5 dB typical 33-40 GHz
9.0 dB maximum 0.1-40 GHz

Attenuation Accuracy (guaranteed monotonic) (1-10dB) ± 0.75 dB 0.1-18 GHz
± 1.00 dB 18-40 GHz
(11-15dB) ± 1.00 dB 0.1-18 GHz
± 1.50 dB 18-40 GHz
(16-23dB) ± 1.50 dB 0.1-18 GHz
± 2.00 dB 18-40 GHz
(24-31dB) ± 2.00 dB 0.1-18 GHz
± 3.00 dB 18-33 GHz
± 4.00 dB 33-40 GHz

RF Input Power +20 dBm average
+25 dBm (0.1dB compression)
Warning: DC voltage not allowed on RF connections

Switching Speed 500 nanoseconds maximum
200 nanoseconds typical

DC Supplies +5Vdc @ 10mA nominal
AND
-5Vdc @ 10mA nominal

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

RF Connector 2.9mm female

Operating Temperature Range -40°C to +85°C

Physical Size See outline drawing 092-8953

ECR/ECN #	DATE	REV	APPR / DATE	ECR/ECN #	DATE	REV	APPR / DATE
	11/09/2017		BAC 11/09/2017	29166	11/16/2018	C	TRS 11/16/2018
28416	01/08/2018	A	CLK 01/08/2018				
29103	10/22/2018	B	BAC 10/22/2018				