

SPECIFICATION SHEET**JFW MODEL 50P-2072****SOLID STATE PROGRAMMABLE ATTENUATOR**

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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 (typically 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	33437	06/27/2024	D	BAC 06/27/2024
29103	10/22/2018	B	BAC 10/22/2018				