

# HXAT1091G Digital Control Attenuator

## 1. Description

ID	Items	Specifications
1-1	Type	Digital Control Attenuator
1-2	Frequency Range	10MHz ~ 20GHz
1-3	Attenuation Range	0 ~ 31.5dB
1-4	Control Step Size	0.5dB
1-5	Attenuation Accuracy	≤±0.5dB
1-6	Insertion Loss	≤3.5dB@6GHz ≤4.5dB@12GHz ≤5.0dB@20GHz
1-7	VSWR	≤2.0
1-8	Impedance	50Ω
1-9	RF Input Power	25dBm
1-10	Switching Speed	≤50ns
1-11	Input/Output Connectors	SMA-F
1-12	Control Connectors	JL24-8ZJW (Mating Outlet JL24-8TKH)
1-13	Control	TTL=0 ~ 0.8V/3.3 ~ 5V
1-14	DC Power Supply	+5V/≤50mA

## 2. Environmental Specifications

ID	Items	Specifications
2-1	Operational Temperature	-40℃ ~ +70℃
2-2	Storage Temperature	-55℃ ~ +85℃

## 3. Interface

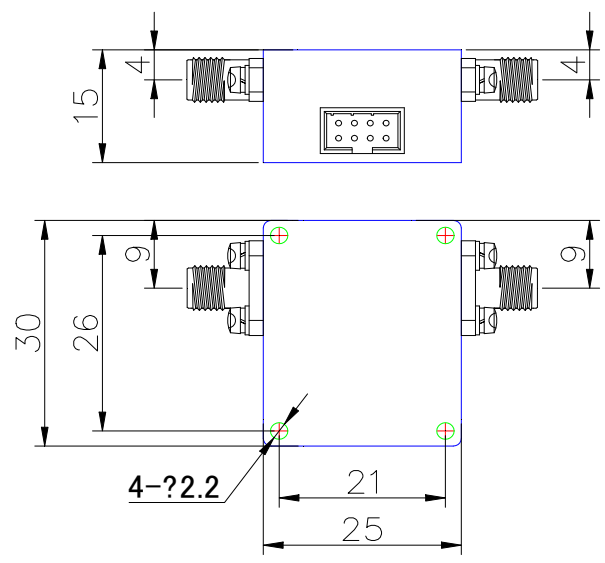
ID	Items	Specifications
3-1	Control Connectors	JL24-8ZJW
3-2	<b>NO</b>	<b>Specifications</b>
	1	+5V
	2	GND
	3	A1
	4	A2
	5	A3
	6	A4
	7	A5
8	A6	

## 4. Truth Table

ID	A1	A2	A3	A4	A5	A6	Attenuation Value
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4-1	0	0	0	0	0	0	Reference
	1	0	0	0	0	0	0.5dB
	0	1	0	0	0	0	1dB
	0	0	1	0	0	0	2dB
	0	0	0	1	0	0	4dB
	0	0	0	0	1	0	8dB
	0	0	0	0	0	1	16dB
	1	1	1	1	1	1	31.5dB

### 5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
<p>Tolerances:±0.1mm</p> 		
5-2	Material	Aluminum
5-3	Finish	Natural Color
5-4	Weight	/

NOTE: ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.