

HXAT4081G Digital Attenuator

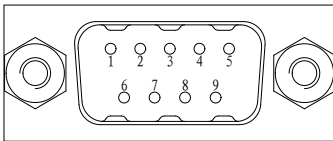
1. Description

ID	Items	Specifications
1-1	Type	Digital Attenuator
1-2	Frequency Range	1MHz ~ 8GHz
1-3	Attenuation Range	0 ~ 31.75dB
1-4	Control Step Size	0.25dB
1-5	Attenuation Accuracy	$\leq \pm 1$ dB Typical
1-6	Insertion Loss	≤ 3.0 dB@3GHz ≤ 4.5 dB@8GHz
1-7	VSWR	≤ 1.6
1-8	Impedance	50 Ω
1-9	RF Input Power	+24dBm
1-10	Switching Speed	≤ 2 us
1-11	Input/Output Connectors	SMA-F
1-12	Control Connector	DB9-Male
1-13	Control	TTL=0V/3.3V ~ 5V
1-14	DC Power Supply	+5V/ ≤ 100 mA

2. Environmental Specifications

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

3. Interface

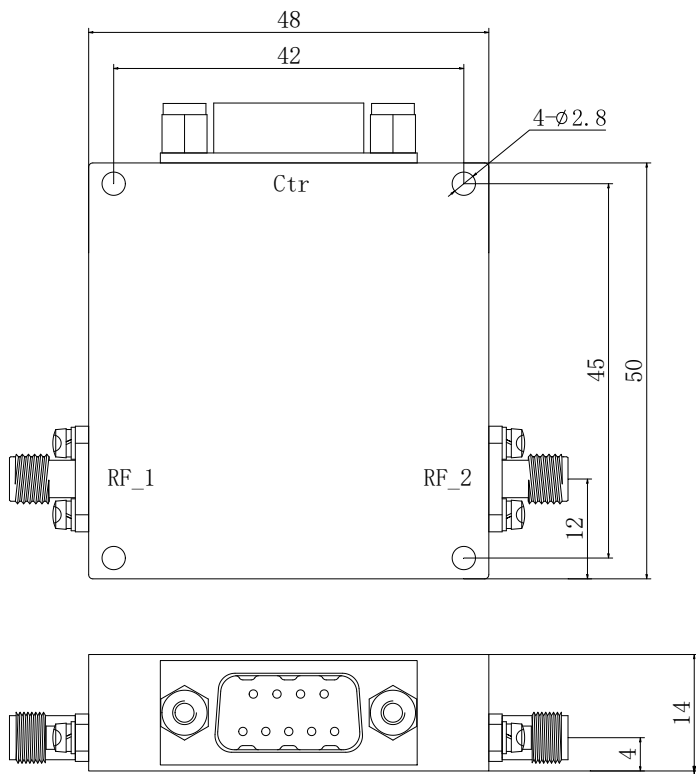
ID	Items	Specifications
3-1	Control Connector	DB9-Male
		
3-2	NO	Specifications
	1	D0
	2	D1
	3	D2
	4	D3
	5	D4
	6	D5
	7	D6
	8	+5V

	9	GND
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4. Truth Table

ID	D0	D1	D2	D3	D4	D5	D6	Attenuation Value
4-1	0	0	0	0	0	0	0	0dB
	1	0	0	0	0	0	0	0.25dB
	0	1	0	0	0	0	0	0.5dB
	0	0	1	0	0	0	0	1dB
	0	0	0	1	0	0	0	2dB
	0	0	0	0	1	0	0	4dB
	0	0	0	0	0	1	0	8dB
	0	0	0	0	0	0	1	16dB
	1	1	1	1	1	1	1	31.75dB

5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances: $\pm 0.2\text{mm}$ 		
5-2	Material	Aluminum
5-3	Finish	Nickel Plated
5-4	Weight	60g

6. Note

6-1	Should be take the ESD protection during use .
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6-2	Exceeding the rated input power limit may cause the product to burn out.
6-3	The RF port must not be subjected to direct current bias voltage.
6-4	Avoid using in extreme temperature, humidity, or corrosive environments.
6-5	Good grounding can reduce EMI and RFI.
6-6	All specifications are subject to change without notice at any time.