

# HXAT4081G Digital Control Attenuator

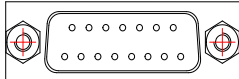
## 1. Description

ID	Items	Specifications
1-1	Type	Digital Control Attenuator
1-2	Frequency Range	50MHz ~ 8GHz
1-3	Attenuation Range	0 ~ 31.75dB
1-4	Control Step Size	0.25dB
1-5	Attenuation Accuracy	±1.0dB
1-6	Insertion Loss	≤3.0dB@4GHz ≤3.6dB@8GHz
1-7	VSWR	≤1.6
1-8	Impedance	50Ω
1-9	RF Input Power	23dBm
1-10	Switching Speed	≤2us
1-11	Input/Output Connectors	SMA-F
1-12	Control Connectors	DB15 Male
1-13	Control	TTL=0 ~ 0.8V/3.3 ~ 5V
1-14	DC Power Supply	+5V/≤100mA

## 2. Environmental Specifications

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

## 3. Interface

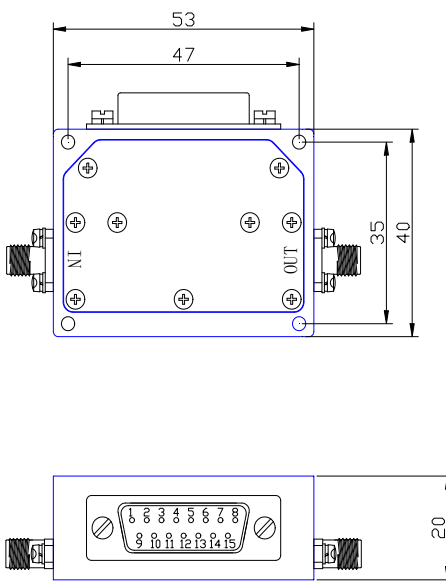
ID	Items	Specifications
3-1	Control Connectors	DB15-Male
		
3-2	<b>NO</b>	<b>Specifications</b>
	1	D0
	2	D1
	3	D2
	4	D3
	5	D4
	6	D5
	7	D6
	8	D7
9-13	NC	

	14	+5V
	15	GND

#### 4. Truth Table

ID	D7	D6	D5	D4	D3	D2	D1	D0	Attenuation Value
4-1	0	0	0	0	0	0	0	0	Reference
	0	0	0	0	0	0	0	1	0.25dB
	0	0	0	0	0	0	1	0	0.5dB
	0	0	0	0	0	1	0	0	1dB
	0	0	0	0	1	0	0	0	2dB
	0	0	0	1	0	0	0	0	4dB
	0	0	1	0	0	0	0	0	8dB
	0	1	0	0	0	0	0	0	16dB
	0	1	1	1	1	1	1	1	31.75dB

#### 5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances:±0.1mm		
		
5-2	Material	Aluminum
5-3	Finish	Nickel Plated
5-4	Weight	/

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