

# HXAT1093G Digital Attenuator

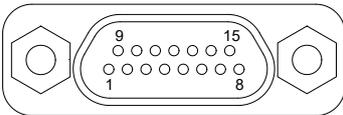
## 1. Description

ID	Items	Specifications
1-1	Type	Digital Attenuator
1-2	Frequency Range	100KHz ~ 20GHz
1-3	Attenuation Range	0 ~ 94.5dB
1-4	Control Step Size	0.5dB
1-5	Attenuation Accuracy	$\leq \pm 1.2\text{dB}@32\text{dB}$
1-6	Insertion Loss	$\leq 11\text{dB}@10\text{GHz}$ $\leq 12\text{dB}@20\text{GHz}$
1-7	VSWR	$\leq 2.5$
1-8	Impedance	50 $\Omega$
1-9	RF Input Power	24dBm
1-10	Switching Speed	$\leq 150\text{ns}$
1-11	Input/Output Connectors	SMA-F
1-12	Control Connectors	J30J-15ZKP
1-13	Control	TTL=0V/3.3V ~ 5V
1-14	DC Power Supply	+5V/ $\leq 50\text{mA}$

## 2. Environmental Specifications

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

## 3. Interface

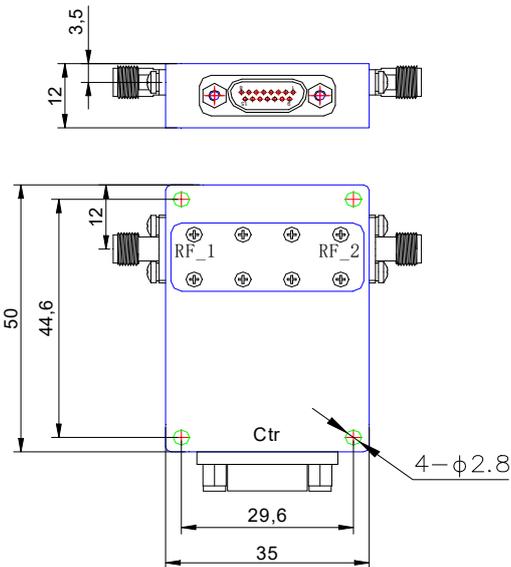
ID	Items	Specifications
3-1	Control Connectors	J30J-15ZKP
		
3-2	<b>NO</b>	<b>Specifications</b>
	1	D0
	2	D1
	3	D2
	4	D3
	5	D4
	6	D5
	7	D6
	8	D7
	9~13	NC

	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	0dB
	0	0	0	0	0	0	0	1	0.5dB
	0	0	0	0	0	0	1	0	1dB
	0	0	0	0	0	1	0	0	2dB
	0	0	0	0	1	0	0	0	4dB
	0	0	0	1	0	0	0	0	8dB
	0	0	1	0	0	0	0	0	16dB
	0	1	0	0	0	0	0	0	32dB
	1	0	0	0	0	0	0	0	63dB
	1	1	1	1	1	1	1	1	94.5dB

#### 5. Outline Drawing

ID	Items	Specifications
5-1	Outline Drawing	Unit: mm
Tolerances:±0.1mm		
		
5-2	Material	Aluminum
5-3	Finished	Nickel Plated
5-4	Weight	≤60g

#### 6. Packing List

ID	Packing List	QTY
6-1	J30J-15TJL	1

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