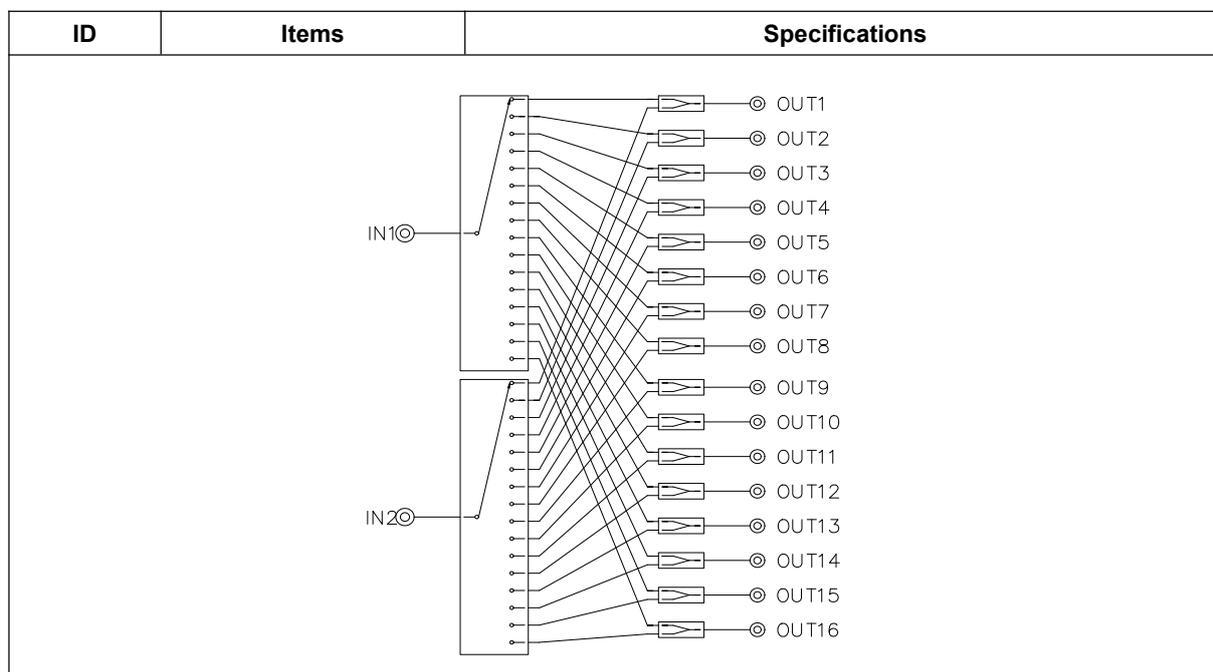


# HX216KGGF4081G Switch Matrix Module

## 1. Functional Diagram



## 2. Description

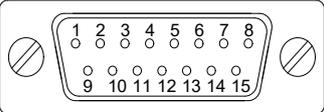
ID	Items	Specifications
2-1	Type	Absorptive 2*16 Switch Matrix Module
2-2	Frequency Range	0.4GHz ~ 8GHz
2-3	Isolation	≥80dB
2-4	Insertion Loss	≤8dB
2-5	VSWR	≤1.7
2-6	Impedance	50Ω
2-7	RF Input Power	2W
2-8	Switching Speed	≤200ns
2-9	Input/Output Connectors	SMA-F
2-10	Control Connectors	DB15-male
2-11	Control	TTL=0V/3.3V ~ 5V
2-12	DC Power Supply	+5V/1.8A, -5V/0.6A

## 3. Environmental Specifications

ID	Items	Specifications
3-1	Operational Temperature	-40°C ~ +70°C
3-2	Storage Temperature	-55°C ~ +85°C

## 4. Interface

ID	Items	Specifications
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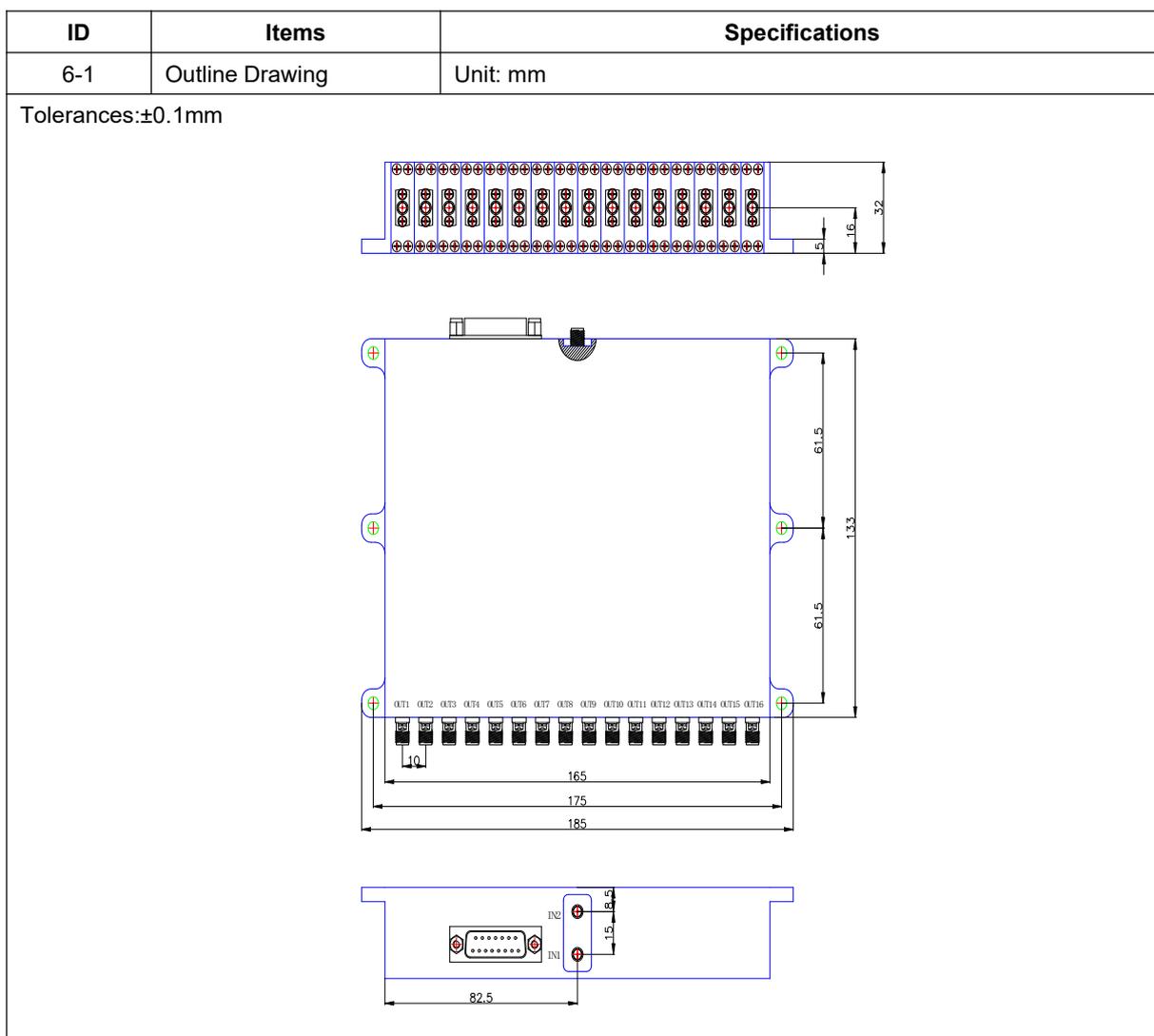
4-1	Control Connectors	DB15-male
		
4-2	<b>NO</b>	<b>Specifications</b>
	1,2	+5V
	3	-5V
	4,5	GND
	6	T1
	7	T2
	8	T3
	9	T4
	10	T5
	11	T6
	12	T7
	13	T8
	14	T9
	15	T10

### 5. Truth Table

ID	T5	T4	T3	T2	T1	Signal Path State
5-1	0	0	0	0	0	IN1-OUT1
	0	0	0	0	1	IN1-OUT2
	0	0	0	1	0	IN1-OUT3
	0	0	0	1	1	IN1-OUT4
	0	0	1	0	0	IN1-OUT5
	0	0	1	0	1	IN1-OUT6
	0	0	1	1	0	IN1-OUT7
	0	0	1	1	1	IN1-OUT8
	0	1	0	0	0	IN1-OUT9
	0	1	0	0	1	IN1-OUT10
	0	1	0	1	0	IN1-OUT11
	0	1	0	1	1	IN1-OUT12
	0	1	1	0	0	IN1-OUT13
	0	1	1	0	1	IN1-OUT14
	0	1	1	1	0	IN1-OUT15
	0	1	1	1	1	IN1-OUT16
1	0	0	0	0	0	IN1 ALL OFF
ID	T10	T9	T8	T7	T6	Signal Path State
5-2	0	0	0	0	0	IN2-OUT1
	0	0	0	0	1	IN2-OUT2

0	0	0	1	0	IN2-OUT3
0	0	0	1	1	IN2-OUT4
0	0	1	0	0	IN2-OUT5
0	0	1	0	1	IN2-OUT6
0	0	1	1	0	IN2-OUT7
0	0	1	1	1	IN2-OUT8
0	1	0	0	0	IN2-OUT9
0	1	0	0	1	IN2-OUT10
0	1	0	1	0	IN2-OUT11
0	1	0	1	1	IN2-OUT12
0	1	1	0	0	IN2-OUT13
0	1	1	0	1	IN2-OUT14
0	1	1	1	0	IN2-OUT15
0	1	1	1	1	IN2-OUT16
1	0	0	0	0	IN2 ALL OFF

### 6. Outline Drawing



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6-2	Material	Aluminum
6-3	Finished	Nickel Plated
6-4	Weight	/

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