

# HX18KG3084G SP8T Switch

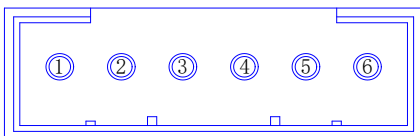
## 1. Description

| ID   | Items                   | Specifications                        |
|------|-------------------------|---------------------------------------|
| 1-1  | Type                    | Absorptive High Isolation SP8T Switch |
| 1-2  | Frequency Range         | 0.4 ~ 6GHz                            |
| 1-3  | Isolation               | ≥120dB                                |
| 1-4  | Insertion Loss          | ≤3.5dB                                |
| 1-5  | VSWR                    | ≤1.6                                  |
| 1-6  | Impedance               | 50Ω                                   |
| 1-7  | RF Input Power          | 2W                                    |
| 1-8  | Switching Speed         | ≤200ns                                |
| 1-9  | Input/Output Connectors | SMA-F                                 |
| 1-10 | Control Connectors      | JL4-6ZJW (Mating Outlet JL4-6TKH)     |
| 1-11 | Control                 | TTL=0 ~ 0.8V/3.3 ~ 5V                 |
| 1-12 | DC Power Supply         | +5V/≤350mA                            |

## 2. Environmental Specifications

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

## 3. Interface

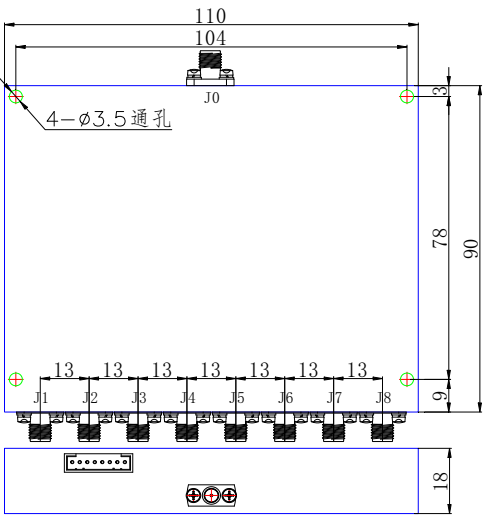
| ID   | Items              | Specifications        |
|--|--------------------|-----------------------|
| 3-1  | Control Connectors | JL4-6ZJW              |
|  |                    |                       |
| 3-2  | <b>NO</b>          | <b>Specifications</b> |
|  | 1                  | +5V                   |
|  | 2                  | GND                   |
|  | 3                  | C1                    |
|  | 4                  | C2                    |
|  | 5                  | C3                    |
|  | 6                  | C4                    |

## 4. Truth Table

| ID  | C4 | C3 | C2 | C1 | Signal Path State |
|-----|----|----|----|----|-------------------|
| 4-1 | 0  | 0  | 0  | 0  | J0→J1             |
|     | 0  | 0  | 0  | 1  | J0→J2             |

|  |   |   |   |   |               |
|--|---|---|---|---|---------------|
|  | 0 | 0 | 1 | 0 | J0→J3         |
|  | 0 | 0 | 1 | 1 | J0→J4         |
|  | 0 | 1 | 0 | 0 | J0→J5         |
|  | 0 | 1 | 0 | 1 | J0→J6         |
|  | 0 | 1 | 1 | 0 | J0→J7         |
|  | 0 | 1 | 1 | 1 | J0→J8         |
|  | 1 | X | X | X | All Ports Off |

## 5. Outline Drawing

| ID   | Items           | Specifications |
|--|-----------------|----------------|
| 5-1  | Outline Drawing | Unit: mm       |
| <p>Tolerances:±0.1mm</p>  |                 |                |
| 5-2  | Material        | Aluminum       |
| 5-3  | Finished        | Nickel Plated  |
| 5-4  | Weight          | /              |

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