

# HX16KG4081G SP6T Switch

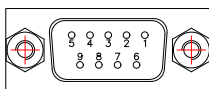
## 1. Description

| ID   | Items                   | Specifications                             |
|------|-------------------------|--------------------------------------------|
| 1-1  | Type                    | Absorptive SP6T Switch                     |
| 1-2  | Frequency Range         | 0.3 ~ 8.5GHz                               |
| 1-3  | Isolation               | ≥80dB                                      |
| 1-4  | Insertion Loss          | ≤1.8dB@0.3 ~ 8.5GHz<br>≤2.0dB@0.3 ~ 8.5GHz |
| 1-5  | VSWR                    | ≤1.5                                       |
| 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      | DB9-Female                                 |
| 1-11 | Control                 | TTL=0 ~ 0.8V/3.3 ~ 5V                      |
| 1-12 | DC Power Supply         | +5V/≤250mA                                 |

## 2. Environmental Specifications

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

## 3. Interface

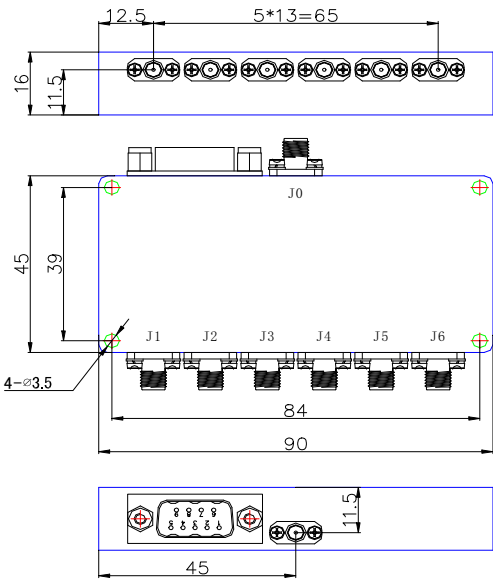
| ID                                                                                  | Items              | Specifications |
|-------------------------------------------------------------------------------------|--------------------|----------------|
| 3-1                                                                                 | Control Connectors | DB9-Female     |
|  |                    |                |
| 3-2                                                                                 | ID                 | Specifications |
|                                                                                     | 1-2                | +5             |
|                                                                                     | 3-4                | GND            |
|                                                                                     | 6                  | C1             |
|                                                                                     | 7                  | C2             |
|                                                                                     | 8                  | C3             |
|                                                                                     | 5,9                | NC             |

## 4. Truth Table

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

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

## 5. Outline Drawing

| ID                                                                                                                                   | Items           | Specifications     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------|
| 5-1                                                                                                                                  | Outline Drawing | Unit: mm           |
| <p>Tolerances: <math>\pm 0.1\text{mm}</math></p>  |                 |                    |
| 5-2                                                                                                                                  | Material        | Aluminum           |
| 5-3                                                                                                                                  | Finished        | Nickel Plated      |
| 5-4                                                                                                                                  | Weight          | $\leq 150\text{g}$ |

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