

## Features

- Design : SP5T Reflective
- Ultra Wide Band
- Low Insertion Loss 3 dB
- Fast Switching Speed
- RoHS and REACH Compliant

## Electrical Specifications

| Description       | Units | Minimum | Typical | Maximum |
|-------------------|-------|---------|---------|---------|
| Freq. Range       | GHz   | 0.1     |         | 18      |
| Input Power       | W     |         | 1       |         |
| Insertion Loss    | dB    |         | 2.5     | 3       |
| VSWR              | :1    |         | 1.7     | 2       |
| Isolation         | dB    | 60      | 65      |         |
| Switching speed   | nsec  |         |         | 120     |
| Rise / Fall time  | nsec  |         |         |         |
| DC Biasing (+5V)  | mA    |         | 250     |         |
| DC Biasing (-5V)  | mA    |         | 50      |         |
| Control Interface |       |         | PIN     |         |
| Control Type      |       |         | TTL     |         |
| Impedance         | Ohms  |         | 50      |         |
| Operating Temp.   | °C    | -45     |         | +85     |

## Special Requirements

## Note

- Electronic Specification Note : Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature ;
- Switching speed is 50% TTL to 90% RF ( T- ON ) and 50% TTL to 10% RF ( T- OFF ) ;
- Rise / Fall time : 10% RF to 90% RF and 90% RF to 10% RF ;

**Mechanical Specifications**

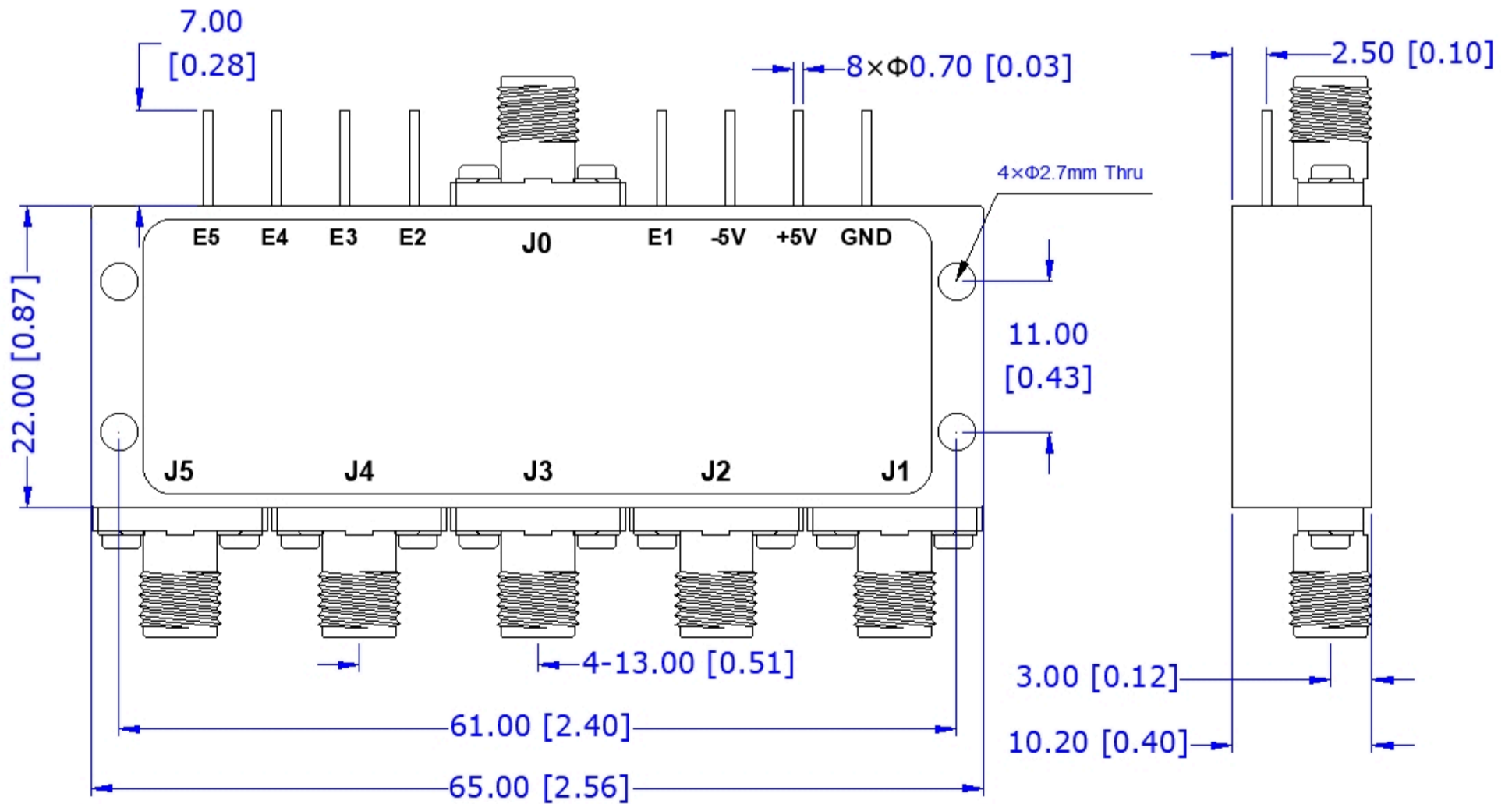
|                        |                            |
|------------------------|----------------------------|
| Dimension L*W*H        | 65*22*10.2 mm              |
| Input Connector        | SMA-Female Stainless Steel |
| Output Connectors      | SMA-Female Stainless Steel |
| Weight                 | 45 g                       |
| Finishing              | Nickel Plated              |
| Environment            | Nominal                    |
| RoHS / REACH Compliant | ✓                          |

**Truth Table**

| Control Input TTL |    |    |    |    | Signal Path State |
|-------------------|----|----|----|----|-------------------|
| E5                | E4 | E3 | E2 | E1 |                   |
| 1                 | 1  | 1  | 1  | 0  | J0-J1             |
| 1                 | 1  | 1  | 0  | 1  | J0-J2             |
| 1                 | 1  | 0  | 1  | 1  | J0-J3             |
| 1                 | 0  | 1  | 1  | 1  | J0-J4             |
| 0                 | 1  | 1  | 1  | 1  | J0-J5             |

- TTL Control Voltage : High ( 1 ) : 2.8 to 5V
- TTL Control Voltage : Low ( 0 ) : 0 to 0.8V
- Low Power cold Switching

**CAD Drawing**



5TA01