



## S80218 2 – 18 GHz SP8T Reflective Switch

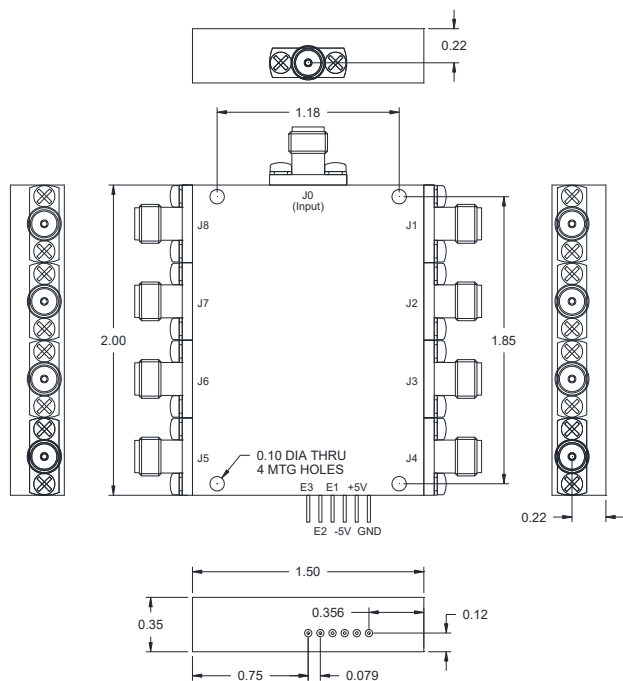
### FEATURES

- ❖ Miniaturized Package
- ❖ TTL Compatible Logic
- ❖ DC Blocks at All Ports
- ❖ Operates at  $\pm 5V$  DC Supply



### SPECIFICATIONS

| <b>2 – 18 GHz SP8T Reflective Switch</b> |                                   |
|--|-----------------------------------|
| Model Number                             | S80218                            |
| Frequency Range                          | 2 – 18 GHz                        |
| Insertion Loss                           | 5.9 dB Typ., 6.5 dB Max.          |
| Isolation                                | 55 dB Typ., 45 dB Min.            |
| VSWR                                     | 1.70:1 Typ., 2.00:1 Max.          |
| Switching Speed                          | 50 ns Typ., 100 ns Max.           |
| RF Power                                 | 27 dBm CW Max.                    |
| DC Supply                                | +5V, -5V                          |
| RF Connector Type                        | SMA Female                        |
| DC Interface                             | Solder PIN, 3 bits binary control |



#### Control Table:

| E3 | E2 | E1 | Action            |
|----|----|----|-------------------|
| 0  | 0  | 0  | J0 to J1 low loss |
| 0  | 0  | 1  | J0 to J2 low loss |
| 0  | 1  | 0  | J0 to J3 low loss |
| 0  | 1  | 1  | J0 to J4 low loss |
| 1  | 0  | 0  | J0 to J5 low loss |
| 1  | 0  | 1  | J0 to J6 low loss |
| 1  | 1  | 0  | J0 to J7 low loss |
| 1  | 1  | 1  | J0 to J8 low loss |

Design to meet the following environmental specifications: (verification optional)

1. Operating Temp: -55°C to +85°C
2. Storage Temp: -65°C to +125°C
3. Shock: MIL-STD-202F, M213, Cond B
4. Altitude: MIL-STD-202F, M105, Cond B
5. Vibration: MIL-STD-202F, M204, Cond B
6. Thermal Shock: MIL-STD-202F, M107, Cond A
7. Temp. Cycle: MIL-STD-202F, M105C, Cond D
8. Humidity: MIL-STD-202F, M103, Cond B  
(Optional with Hysol epoxy seal)

Standard Finishing: Rugged Aluminum Housing, optional finishing with blue epoxy paint per MIL-C-22750 available on request.