



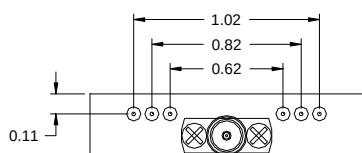
### S31004/S31004A 0.1 – 4 GHz SP3T Switch

#### FEATURES

- ❖ DC Blocks at All RF Ports
- ❖ Convenient In-line Structure
- ❖ Operates at  $\pm 5V$  DC
- ❖ TTL Compatible Logic

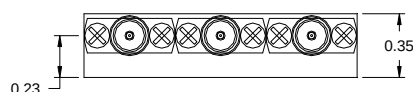
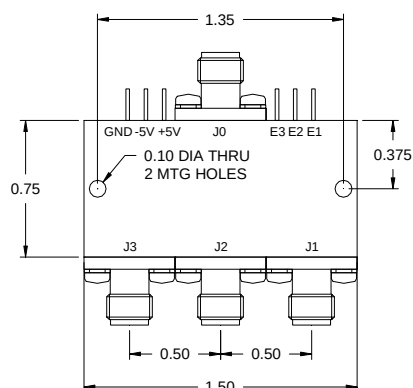
#### SPECIFICATIONS

| 0.1 – 4 GHz SP3T Reflective and Absorptive Switch |                                                 |                |
|---------------------------------------------------|-------------------------------------------------|----------------|
| Parameter                                         | Reflective                                      | Absorptive     |
| Model Number                                      | S31004                                          | S31004A        |
| Frequency Range                                   | 0.1 – 4 GHz                                     | 0.1 – 4 GHz    |
| Insertion Loss                                    | 2.6 dB Max.                                     | 2.8 dB Max.    |
| Isolation                                         | 60 dB Min.                                      | 60 dB Min.     |
| Input VSWR                                        | 1.50:1 Max.                                     | 1.50:1 Max.    |
| Output VSWR @ ON Status                           | 1.50:1 Max.                                     | 1.50:1 Max.    |
| Output VSWR @ OFF Status                          | N/A                                             | 1.40:1 Max.    |
| Switching Speed                                   | 200 ns Max.                                     | 200 ns Max.    |
| Survival RF Power                                 | 1 Watt CW Max.                                  | 1 Watt CW Max. |
| DC Supply                                         | $\pm 5V$                                        | $\pm 5V$       |
| RF Connector Type                                 | SMA Female                                      | SMA Female     |
| DC & Control                                      | Solder PIN; TTL "0"=low loss, TTL "1"=isolation |                |



Note:

- E1 Controls J0 - J1
- E2 Controls J0 - J2
- E3 Controls J0 - J3



Design to meet the following environmental ratings:

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. Temp. Cycle: MIL-STD-202F, M107D, Cond A
7. Humidity: MIL-STD-202F, M103, Cond B