



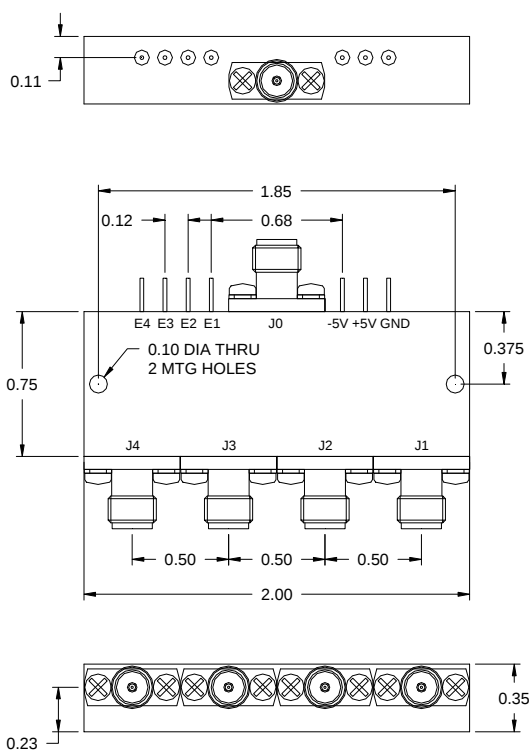
### S40118/S40118A 1 – 18 GHz SP4T Switch

#### FEATURES

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

#### SPECIFICATIONS

| 1 – 18 GHz SP4T Reflective and Absorptive Switch |                                                 |                |
|--------------------------------------------------|-------------------------------------------------|----------------|
| Parameter                                        | Reflective                                      | Absorptive     |
| Model Number                                     | S40118                                          | S40118A        |
| Frequency Range                                  | 1 – 18 GHz                                      | 1 – 18 GHz     |
| Insertion Loss                                   | 3.2 dB Max.                                     | 3.5 dB Max.    |
| Isolation                                        | 60 dB Min.                                      | 60 dB Min.     |
| Input VSWR                                       | 1.60:1 Max.                                     | 1.60:1 Max.    |
| Output VSWR @ ON Status                          | 1.60:1 Max.                                     | 1.60:1 Max.    |
| Output VSWR @ OFF Status                         | N/A                                             | 1.60:1 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
- E4 Controls J0 - J4

#### 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