



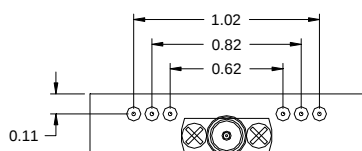
S31001/S31001A 0.1 – 1 GHz SP3T Switch

FEATURES

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

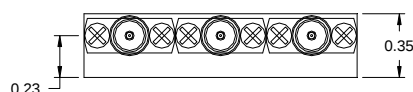
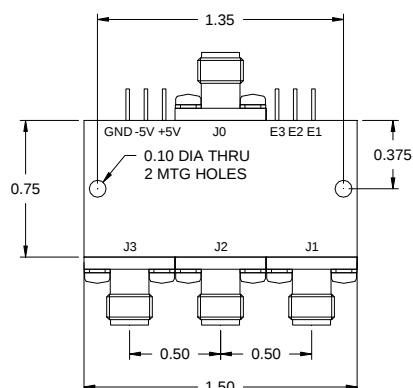
SPECIFICATIONS

0.1 – 1 GHz SP3T Reflective and Absorptive Switch		
Parameter	Reflective	Absorptive
Model Number	S31001	S31001A
Frequency Range	0.1 – 1 GHz	0.1 – 1 GHz
Insertion Loss	0.9 dB Max.	1.0 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	100 ns Max.	100 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