



S80612A 6 – 12 GHz SP8T Absorptive Switch

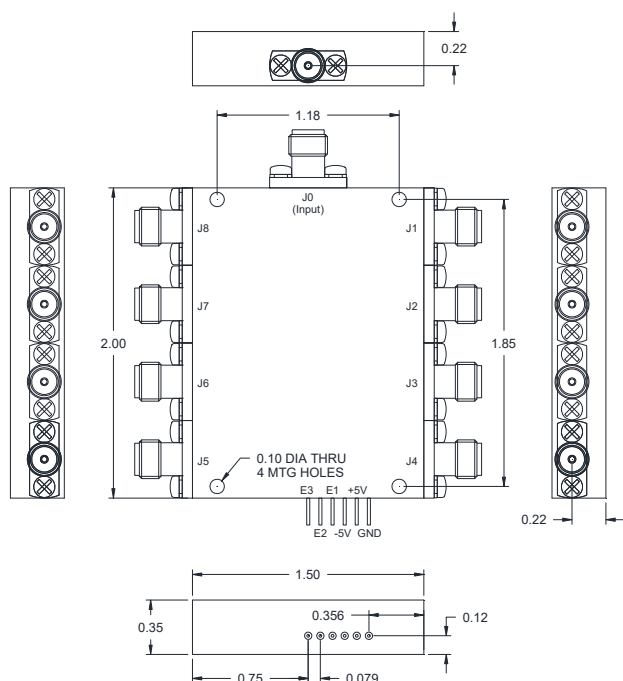
FEATURES

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



SPECIFICATIONS

| 6 – 12 GHz SP8T Absorptive Switch | |
|--|-----------------------------------|
| Model Number | S80612A |
| Frequency Range | 6 – 12 GHz |
| Insertion Loss | 3.5 dB Typ., 4.2 dB Max. |
| Isolation | 60 dB Typ., 50 dB Min. |
| VSWR at ON state | 1.60:1 Typ., 1.80:1 Max. |
| VSWR at OFF state | 1.60:1 Typ., 1.80:1 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.