



S81018A 0.1 – 18 GHz SP8T Absorptive Switch

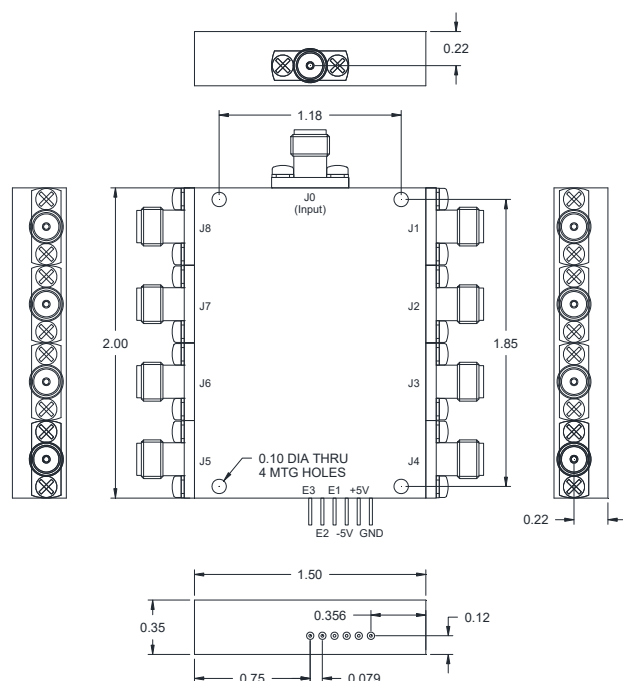
FEATURES

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



SPECIFICATIONS

0.1 – 18 GHz SP8T Absorptive Switch	
Model Number	S81018A
Frequency Range	0.1 – 18 GHz
Insertion Loss	6.3 dB Typ., 6.8 dB Max.
Isolation	55 dB Typ., 45 dB Min.
VSWR at ON state	1.8:1 Typ., 2.2:1 Max.
VSWR at OFF state	1.8:1 Typ., 2.2:1 Max.
Switching Speed	200 ns Typ., 500 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.