



SF0112A 1 – 12 GHz SP16T Absorptive Switch

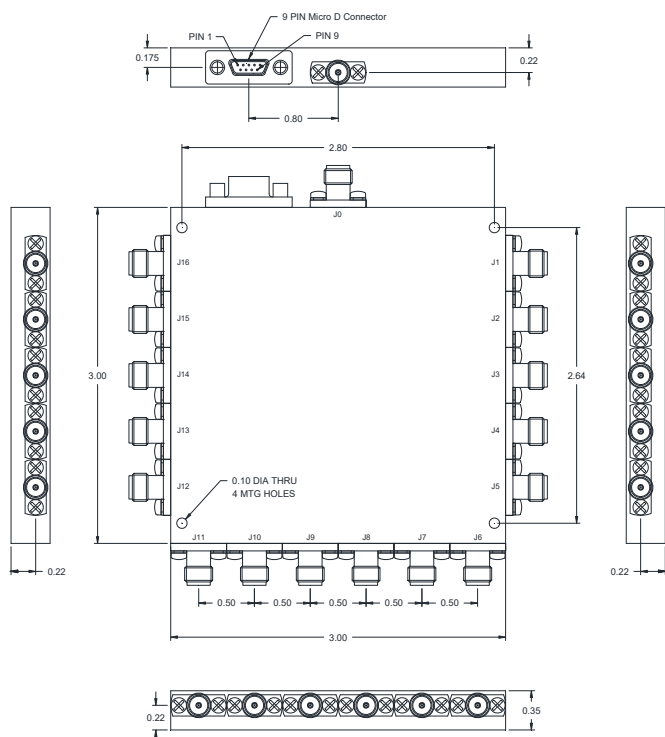
FEATURES

- ❖ Miniaturized Package
- ❖ TTL Compatible Logic
- ❖ DC Blocks at All Ports
- ❖ 9 PIN Micro D Connector



SPECIFICATIONS

1 – 12 GHz SP16T Absorptive Switch	
Model Number	SF0112A
Frequency Range	1 – 12 GHz
Insertion Loss	4.5 dB Typ., 5.3 dB Max.
Isolation	60 dB Typ., 45 dB Min.
VSWR at ON state	1.80:1 Typ., 2.00:1 Max.
VSWR at OFF state	1.80:1 Typ., 2.00:1 Max.
Switching Speed	50 ns Typ., 100 ns Max.
RF Power	27 dBm CW Max.
DC Supply	+5V, -7V
RF Connector Type	SMA Female
DC Interface	9 PIN Micro D Connector, 4 Bits binary control



Micro D PIN assignment:

PIN 2 to PIN 5: 4-bit Control; PIN 1 & 9: N/A

PIN 6 to PIN 8 → -7V, +5V, Ground

Control Table (PIN2, PIN3, PIN4, PIN5):

0 0 0 0	J0 to J1 On,	1 0 0 0	J0 to J9 On
0 0 0 1	J0 to J2 On,	1 0 0 1	J0 to J10 On
0 0 1 0	J0 to J3 On,	1 0 1 0	J0 to J11 On
0 0 1 1	J0 to J4 On,	1 0 1 1	J0 to J12 On
0 1 0 0	J0 to J5 On,	1 1 0 0	J0 to J13 On
0 1 0 1	J0 to J6 On,	1 1 0 1	J0 to J14 On
0 1 1 0	J0 to J7 On,	1 1 1 0	J0 to J15 On
0 1 1 1	J0 to J8 On,	1 1 1 1	J0 to J16 On

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.