



S20112A 1 – 12 GHz SPDT Absorptive Switch

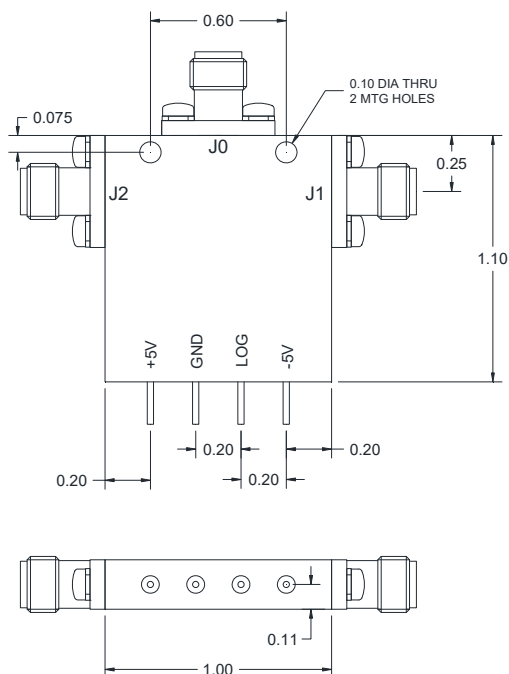
FEATURES

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



SPECIFICATIONS

1 – 12 GHz SPDT Absorptive Switch	
Model Number	S20112A
Frequency Range	1 – 12 GHz
Insertion Loss	2.3 dB Typ., 2.8 dB Max.
Isolation	65 dB Typ., 60 dB Min.
VSWR at ON state	1.40 Typ., 1.55:1 Max.
VSWR at OFF state	1.40 Typ., 1.65:1 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



Design to meet the following environmental specifications: (verification optional)

1. Operating Temp: -55°C to $+85^{\circ}\text{C}$
2. Storage Temp: -65°C to $+125^{\circ}\text{C}$
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.

Note:

1. Control:
TTL=1: J1-J2 low loss
TTL=0: J1-J2 Isolation
2. Switching speed: 10% to 90% RF
3. Standard connector is SMA female for all the ports
4. Other connector combination is available on request