

Frequency Range (min)	4 – 8	GHz
Insertion Loss (max)	1.9	dB
VSWR (max)	1.6	ratio
Isolation (min)	75	dB
Switching speed (max)	100	nsec
CW RF power, operating (max)	1	W

S2C1 SWITCH SINGLE-POLE, SINGLE-THROW **ABSORPTIVE**

S2 Outline (Two bit control)

Finish: Gold plate per MIL-G-45204, Chem film per MIL-C-5541

S2-1 Outline (Single bit control)

NOTES:

(-12 option)

DC Bias: +5V +/-0.5V @ 80mA max -15V +/-3V @ 50mA max (Standard)

DC Bias: +5V +/-0.5V @ 100mA max (-5 option) -5V +/-0.5V @ 60mA max DC Bias: +15V +/-3V @ 80mA max -15V +/-3V @ 50mA max

Control: TTL 0 = Low Loss E1 controls J2 - J1 (Standard) TTL 1 = Isolation E2 controls J3 - J1 Single Bit Control: E1=0: J2 - J1 low loss, J3 - J1 isolation (E2=N/C) E1=1: J3 – J1 low loss, J2 – J1 isolation (E2=N/C) (-1 option)

Absorptive switch: Internal 50Ω terminations at J2 and J3 (in isolation mode).

Switching speed is defined as 50%TTL to 90% (t-on) and 50%TTL to 10%RF (t-off).

ENVIRONMENTAL SPECIFICATIONS:

MIL-E-5400, MIL-STD-202, MIL-E-16400 Operating Temp: -55°C to +85°C Storage Temp: -65°C to +125°C Humidity: MIL-STD-202F, M103, Cond B Shock: MIL-STD-202F, M213, Cond B Altitude: MIL-STD-202F, M105, Cond B Vibration: MIL-STD-202F, M204, Cond B Thermal Shock: MIL-STD-202F, M107, Cond A

Case Styles:

Weight: 20g max

Internal Visual per MIL-STD-883, Method 2017 Temperature Cycle: -65°C to +100°C, 10 cycles

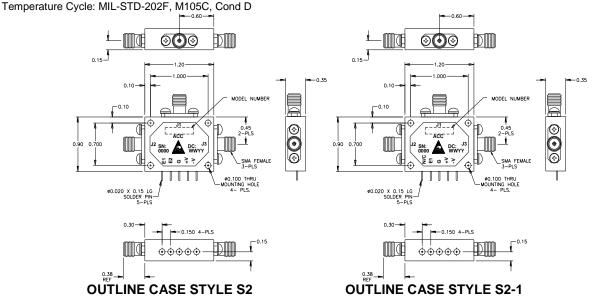
MECHANICAL SPECIFICATIONS:

Connectors: SMA Female per MIL-C-39012

Bias & Control Pins: Ø0.02" x 0.15" long

Mounting: Ø0.10" through holes (4) places

Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.



PART NUMBER ORDERING INFORMATION:

- Add "-RC" suffix: RoHS-compliant
- Add "-5" suffix: +/-5V DC supplies
- Add "-5-RC" suffix: +/-5V DC supplies, RoHS-compliant
- Add "-12" suffix: +/-12V to 18V DC supplies
- Add "-12-RC" suffix: +/-12V to 18V DC supplies, RoHS-compliant
- Add "-1": Single bit logic control
- Add "-1-RC" suffix: Single bit logic control, RoHS-compliant
- Add "-1-5" suffix: Single bit logic control, +/-5V DC supplies
- Add "-1-5-RC" suffix: Single bit logic control, +/-5V DC supplies, RoHS-compliant
- Add "-1-12" suffix: Single bit logic control, +/-12V to 18V DC supplies
- Add "-1-12-RC" suffix: Single bit logic control, +/-12V to 18V DC supplies, RoHS-compliant
- Add "-H" suffix: Hermetic seal (does not apply to RoHS-compliant