S1S4

SWITCH
SINGLE-POLE, SINGLE-THROW
ABSORPTIVE

Frequency Range (min)	2 – 10	GHz
Insertion Loss (max)	2.0	dB
VSWR (max)	1.8	ratio
Isolation (min)	70	dB
Switching speed (max)	100	nsec
CW RF power, operating (max)	1	W

NOTES:

DC Bias: (Standard)	+5V +/-0.5V @ 50mA max -15V +/-3V @ 50mA max
DC Bias: (-5 option)	+5V +/-0.5V @ 60mA max -5V +/-0.5V @ 60mA max
DC Bias: (-12 option)	+15V +/-3V @ 50mA max -15V +/-3V @ 50mA max
Control:	TTL 0 = Low Loss TTL 1 = Isolation

Absorptive switch: 50Ω terminations at both RF ports (in isolation mode).

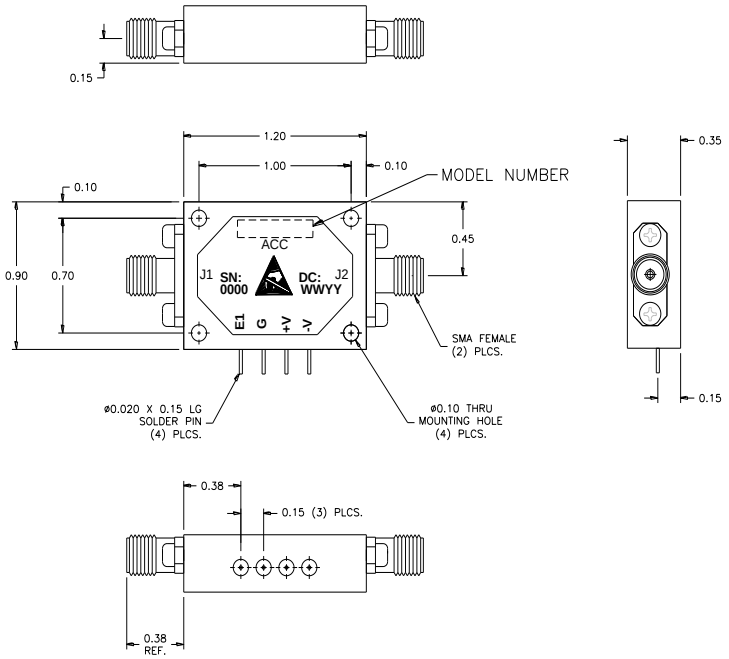
Switching speed is defined as 50%TTL to 90% (t-on) and 50%TTL to 10%RF (t-off).

MECHANICAL SPECIFICATIONS:
Case Style: S1 Outline
Finish: Gold Plate per MIL-G-45204
Bias & Control Pins: ø0.02" x 0.15" long
Weight: 20g max
Mounting: ø0.10" through holes (4) places

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
Temperature Cycle: MIL-STD-202F, M105C, Cond D

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

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



OUTLINE CASE STYLE S1

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 "-H" suffix: Hermetic seal (does not apply to RoHS-compliant models)

611 Industrial Way West, Eatontown, NJ 07724 tel: 732-460-0212 fax: 732-460-0214 sales@advanced-control.com www.advanced-control.com