S3S5 Pin Diode Switch Single Pole, Three Throw Absorptive

Features:

- Incorporated TTL-compatible driver for convenient system integration and operates from +5V and -15V DC power supplies.
- DC blocks at all RF ports.
- · Ruggedized construction.
- · RoHS-compliant versions available.
- Hermetic versions available.





Specifications:

Parameter	Specification	Units
Frequency Range	2 – 12	GHz
Insertion Loss (max)	2.4	dB
VSWR (max) 50 ohms	1.9	ratio
Isolation (min)	70	dB
Switching Speed (max)	100	nsec
CW RF Power, Operating (max)	0.5	W

Notes:

DC Bias: +5V +/-0.5V @ 120 mA max (Standard) -15V +/-3V @ 50 mA max

DC Bias: +5V +/-0.5V @ 150 mA max (-5 option) -5V +/-0.5V @ 60 mA max

DC Bias: +15V +/-3V @ 120 mA max (-12 option) -15V +/-3V @ 50 mA max

Control: TTL 0 = Low Loss E1 controls J2 – J1 TTL 1 = Isolation E2 controls J3 – J1

E3 controls J4 – J1

E3 CONTROLS J4 – C

Absorptive Switch: 50 ohm termination present at J2, J3 and J4 (in isolation mode).

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

Environmental Specifications:

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

Mechanical Specifications:

Case Style: S3 Outline

Finish: Gold Plate per MIL-G-45204

Chem film per MIL-C-5541

Bias & Control Pins: ø0.02" x 0.15" long

Weight: 35 g max

Mounting: ø0.10" through holes

(4) places

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.

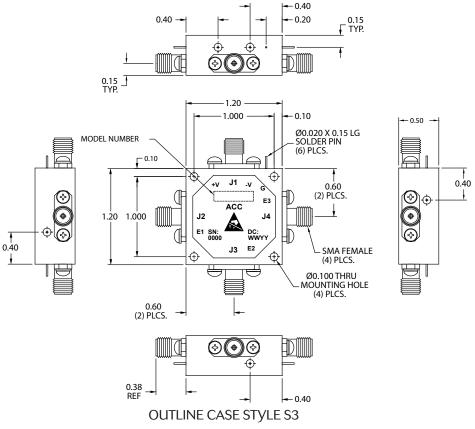
Optional High-Rel screening available upon request. Contact the factory to discuss your screening requirements.



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Part Number Ordering Information:

- Add "-RC" suffix: RoHS-compliant
- Add "-H" suffix: Hermetic seal
- Add "-5" suffix: +/-5V DC supplies
- Add "-5-RC" suffix: +/-5V DC supplies, RoHS-compliant
- Add "-5-H" suffix: +/-5V DC supplies, Hermetic seal
- Add "-12" suffix: +/-15V DC supplies
- Add "-12-RC" suffix: +/-15V DC supplies, RoHS-compliant
- Add "-12-H" suffix: +/-15V DC supplies, Hermetic seal

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ISO 9001:2008 certified









Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.

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