S2L4R Pin Diode Switch Single Pole, Two Throw Reflective

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	1 – 10	GHz
Insertion Loss (max)	2.0	dB
VSWR (max) 50 ohms	2.0	ratio
Isolation (min)	70	dB
Switching Speed (max)	100	nsec
CW RF Power, Operating (max)	0.5	W

Notes:

DC Bias:	+5V +/-0.5V @ 80 mA max	
(Standard)	-15V +/-3V @ 50 mA max	
DC Bias:	+5V +/-0.5V @ 100 mA max	
(-5 option)	-5V +/-0.5V @ 60 mA max	
DC Bias:	+15V +/-3V @ 80 mA max	
(-12 option)	-15V +/-3V @ 50 mA max	
Control:		E1 controls J2 – J1 E2 controls J3 – J1
Single Bit Control: (-1 option)	E1=0: J2 – J1 Low Loss, J3 – J1 Isolation E1=1: J3 – J1 Low Loss, J2 – J1 Isolation	

Switching speed is defined as 50% TTL to 90% RF (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		
Temperature Cycle:	MIL-STD-202F, M105C, Cond D		

Mechanical Specifications:

Case Styles:	S2 Outline (Two bit control)	
	S2-1 Outline (Single bit control)	
Finish:	Gold Plate per MIL-G-45204	
	Chem film per MIL-C-5541	
Bias & Control Pins:	ø0.02" x 0.15" long	
Weight:	20 g max	
Mounting:	ø0.10" through holes (4) places	
	Finish: Bias & Control Pins: Weight:	

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 thefactory to discuss your screening requirements.

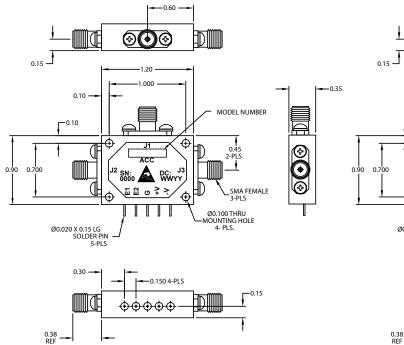


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CONTROL COMPONENTS

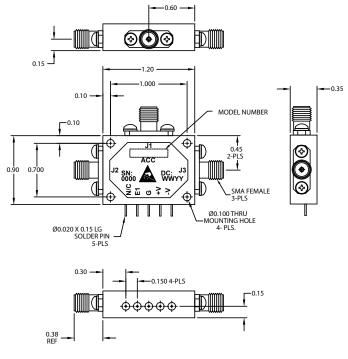
Outline Drawing:



OUTLINE CASE STYLE S2

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 •
- Add "-1": Single bit logic control .
- Add "-1-RC" suffix: Single bit logic control, RoHS-compliant



OUTLINE CASE STYLE S2-1

- Add "-1-H" suffix: Single bit logic control, Hermetic seal
- 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 "-1-5-H" suffix: Single bit logic control, +/-5V DC supplies, Hermetic seal
- Add "-1-12" suffix: Single bit logic control, +/-15V DC supplies .
- Add "-1-12-RC" suffix: Single bit logic control, +/-15V DC supplies, RoHS-compliant
- Add "-1-12-H" suffix: Single bit logic control, +/-15V DC supplies, Hermetic seal

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