S1K2R Pin Diode Switch Single Pole, Single 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	12 – 18	GHz
Insertion Loss (max)	2.0	dB
VSWR (max) 50 ohms	2.0	ratio
Isolation (min)	60	dB
Switching Speed (max)	100	nsec
CW RF Power, Operating (max)	0.5	W

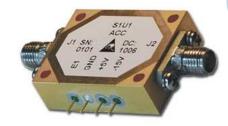
Notes:

DC Bias:	+5V +/-0.5V @ 50 mA max
(Standard)	-15V +/-3V @ 50 mA max
DC Bias:	+5V +/-0.5V @ 60 mA max
(-5 option)	-5V +/-0.5V @ 60 mA max
DC Bias:	+15V +/-3V @ 50 mA max
(-12 option)	-15V +/-3V @ 50 mA max
Control:	TTL 0 = Low Loss TTL 1 = 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	2, 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



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Med	hanical Specifications:	

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

Screening:

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

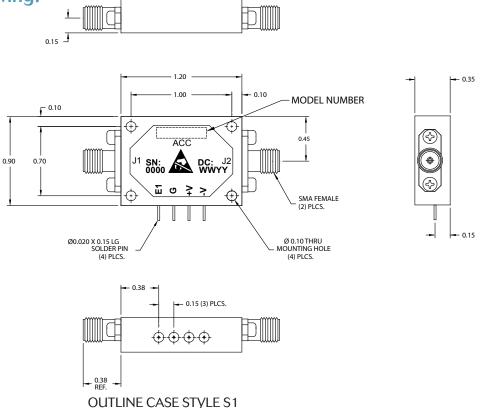
Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.

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

Aeroflex Control Components ISO 9001:2008 certified Aeroflex Microelectronic Solutions 40 Industrial Way East Eatontown, NJ 07724 [USA] Fax: (732) 460-0214 Sales Phone: (732) 460-0212 A passion for performance. ACC-sales@aeroflex.com www.aeroflex.com/Microwave www.aeroflex.com/ACC Aeroflex Control Components reserves the right to make changes to any products and services herein at any time without notice. Consult Aeroflex or an authorized sales representative to verify that the information in this data sheet is current before using this product. Aeroflex does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing by Aeroflex; nor does the purchase, lease, or use of a product or service from Aeroflex convey a license under any patent rights, copyrights, Our passion for performance is defined by three trademark rights, or any other of the intellectual rights of Aeroflex or of third parties. attributes represented by these three icons:

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