S6H2R Pin Diode Switch Single Pole, Six 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	0.01 – 0.5	GHz
Insertion Loss (max)	1.3	dB
VSWR (max) 50 ohms	1.5	ratio
Isolation (min)	75	dB
Switching Speed (max)	250	nsec
CW RF Power, Operating (max)	1	W

Notes:

 DC Bias:
 +5V +/-0.5V @ 240 mA max

 (Standard)
 -15V +/-3V @ 50 mA max

 DC Bias:
 +5V +/-0.5V @ 300 mA max

 (-5 option)
 -5V +/-0.5V @ 60 mA max

 DC Bias:
 +15V +/-3V @ 240 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 E4 controls J5 – J1 E5 controls J6 – J1

E6 controls J7 – J1

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 MIL-STD-202F, M105, Cond B Wibration: 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: S6 Outline (Six bit control)

S6-3 Outline (Three bit control)

Finish: Gold Plate per MIL-G-45204

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

Weight: 65 g max

Mounting: ø0.10" through holes

(2) places

Three Bit Control: E3 E2 Low Loss Path E1 (-3 option) J2 - J1 0 0 0 0 0 J3 - J1 1 1 J4 - J1 0 J5 - J1 1 1 0 0 J6 - J1 0 J7 - J1 ALL OFF 0 1 ALL OFF

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.

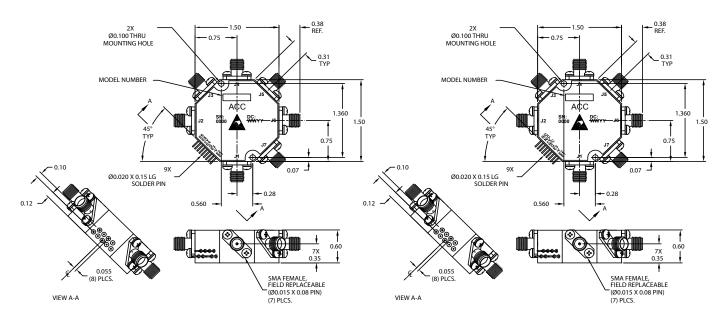
Optional High-Rel screening available upon request. Contact the factory to discuss your screening requirements.



40 Industrial Way East, Eatontown , NJ 07724 [USA] Phone: (732) 460-0212, Fax: (732) 460-0214

www.aeroflex.com/acc, email: acc-sales@aeroflex.com





OUTLINE CASE STYLE S6

OUTLINE CASE STYLE S6-3

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 "-3" suffix: Three bit logic control
- Add "-3-RC" suffix: Three bit logic control, RoHS-compliant

- Add "-3-H" suffix: Three bit logic control, Hermetic seal
- Add "-3-5" suffix: Three bit logic control, +/-5V DC supplies
- Add "-3-5-RC" suffix: Three bit logic control, +/-5V DC supplies, RoHS-compliant
- Add "-3-5-H" suffix: Three bit logic control, +/-5V DC supplies, Hermetic seal
- Add "-3-12" suffix: Three bit logic control, +/-15V DC supplies
- Add "-3-12-RC" suffix: Three bit logic control, +/-15V DC supplies, RoHS-compliant
- Add "-3-12-H" suffix: Three bit logic control, +/-15V DC supplies, Hermetic seal

Aeroflex Control Components

Aeroflex Microelectronic Solutions 40 Industrial Way East Eatontown , NJ 07724 [USA]

Fax: (732) 460-0214

Sales

Phone: (732) 460-0212 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, trademark rights, or any other of the intellectual rights of Aeroflex or of third parties.

Copyright 2011 Aeroflex Control Components. All rights reserved.









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