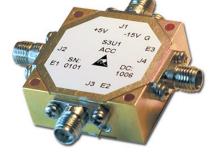
S3V4 Pin Diode Switch Single Pole, Three Throw Absorptive

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.

Specifications:

- RoHS-compliant versions available.
- Hermetic versions available.



A passion for performance.

Parameter	Specification	Units
Frequency Range	0.1 – 4	GHz
Insertion Loss (max)	3.0	dB
VSWR (max) 50 ohms	1.8	ratio
Isolation (min)	80	dB
Switching Speed (max)	250	nsec
CW RF Power, Operating (max)	1	W

Notes:

DC Bias:	+5V +/-0.5V @ 120		Cas
(Standard)	-15V +/-3V @ 50 m		Finis
DC Bias: (-5 option)	+5V +/-0.5V @ 150 -5V +/-0.5V @ 60 n		T II IIS
DC Bias:	+15V +/-3V @ 120		Bias
(-12 option)	-15V +/-3V @ 50 m		Wei
Control:	TTL $0 = Low Loss$ TTL $1 = Isolation$	E1 controls J2 – J1 E2 controls J3 – J1 E3 controls J4 – J1	Μοι

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:

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

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 $^\circ C$ to +100 $^\circ C$, 10 cycles

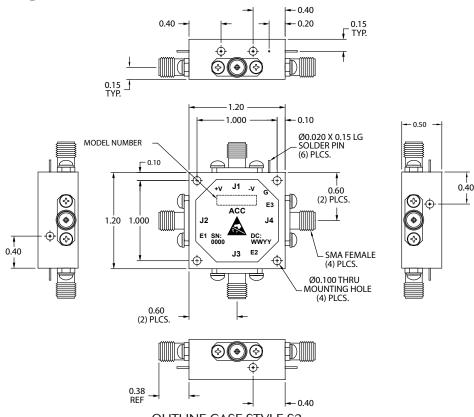
Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.

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



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 S3

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

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.