S6V1R 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. •



A passion for performance.

Specifications:				
Parameter	Specification	Units		
Frequency Range	0.1 – 0.5	GHz		
Insertion Loss (max)	1.3	dB		
VSWR (max) 50 ohms	1.5	ratio		
Isolation (min)	80	dB		
Switching Speed (max)	250	nsec		
CW RF Power, Operating (max)	1	W		

Notes:

DC Bias: (Standard)	+5V +/-0.5V @ 240 -15V +/-3V @ 50 m		Case St
DC Bias: (-5 option)	+5V +/-0.5V @ 300 -5V +/-0.5V @ 60 r		Finish:
DC Bias:	+15V +/-3V @ 240	mA max	Bias & (
(-12 option)	-15V +/-3V @ 50 m		Weight:
Control:	TTL $0 = Low Loss$ TTL $1 = Isolation$	E1 controls J2 – J1 E2 controls J3 – J1 E3 controls J4 – J1	Mountir
		E4 controls J5 – J1	Three E
		E5 controls J6 – J1	(-3 optio
		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:

MII-F-5400	MIL-STD-202	MIL-E-16400
MILL 3400,	MIL 51D 202,	MILL 10+00

MILL 0 100, MILDID 202	, MILL 10100
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:

se Styles:		S6 Outline (Six bit control)		
		S6-	3 Ou	tline (Three bit control)
ish:		Gold Plate per MIL-G-45204		
s & Control Pins:		ø0.02" x 0.15" long		
ight:		65 g max		
unting:		ø0.10" through holes (2) places		
ee Bit Control: option)	E3 0 0 0	E2 0 0 1	E1 0 1 0	Low Loss Path J2 - J1 J3 - J1 J4 - J1
	0	1	1	J5 - J1

0 0 J6 - J1 1 0 1 J7 - J1 1 0 ALL OFF 1 ALL OFF 1 1

Screening:

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

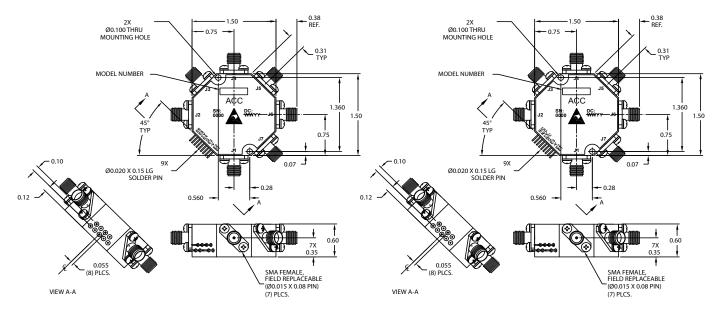
Hermetically-sealed switches are fine and gross leak checked per MIL-STD-883, Method 1014.

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



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OUTLINE CASE STYLE S6

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

OUTLINE CASE STYLE S6-3

- 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

solution-minded, performance-driven and customer-focused.

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