



# S6X2/S6X2R PIN Diode Switch

Single Pole, Six Throw, Absorptive/Reflective



## NOTES:

DC Bias: (Standard)	+5 V +/- 0.5 V @ 240 mA max -15 V +/- 3 V @ 50 mA max
DC Bias: (-5 option)	+5 V +/- 0.5 V @ 300 mA max -5 V +/- 0.5 V @ 60 mA max
DC Bias: (-12 option)	+15 V +/- 3 V @ 240 mA max -15 V +/- 3 V @ 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

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

Absorptive Switch: 50 ohm termination present at J2, J3, J4, J5, J6 and J7 (in isolation mode).

Switching speed is defined as 50% TTL to 90% RF (t-on) and 50% TTL to 10% RF (t-off).

Finish: Gold Plate per MIL-G-45204  
Chem film per MIL-C-5541

Weight: 65g (max)

## PART NUMBER ORDERING INFORMATION:

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

## 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

\* Compliant by design, verification optional

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

## ISO 9001:2008 and AS9100 certified

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