

SW3R001

SP3T Reflective Switch 100MHz to 20GHz

RF for RF Engineers

Description:

Amplical's SW3R001 SP3T ultra-broadband coaxial reflective PIN diode switch features low insertion loss, low vswr, high isolation and fast switching speed. RF ports incorporate DC blocks. An on-board TTL-compatible driver provides convenient logic control. The switch operates from +5V DC and a negative DC supply ranging from -12V to -20V. The compact design incorporates SMA female connectors. Two Ø0.096 through holes are provided for convenient chassis mounting.

Specifications:

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100 MHz to 20 GHz minimum	
3.1 dB maximum	
2.0:1 maximum (50Ω)	
60 dB minimum (above insertion loss)	
75 nsec maximum	
45 nsec maximum	
25 nsec maximum	
15 nsec maximum	
+27 dBm maximum	
+45 dBm minimum	
+75 dBm minimum	
TTL 0: Insertion Loss; TTL 1: Isolation	
+5.0 ± 0.3V @ 110mA maximum	
-12.0 to -20.0V @ 40mA maximum	
SMA Female per MIL-PRF-39012	
ø0.030" x 0.20" long solder pin	
-55°C to +85°C	
-65°C to +125°C	
Albaloy	
Gold Plate per MIL-G-45204	
37 grams maximum	
See Figure I	

Logic control pin function:

El controls JI to J0 path

E2 controls J2 to J0 path

E3 controls J3 to J0 path

Customization:

Amplical offers complete customization of any electrical or mechanical parameter for any product. All models are available with hermetic seal and complete MIL screening. Contact the factory to discuss your specific requirements

About Amplical Corporation:

Amplical is a leading supplier of high quality RF and Microwave components. Utilizing state of the art design and manufacturing techniques, Amplical focuses on producing high performance amplifiers, switches, modulators, attenuators, phase shifters and limiters at affordable prices. Amplical serves the defense, aerospace, communications, limiters at affordable prices. Amp test and instrumentation markets.

Disclaimer:

Specifications subject to change without notice. Contact the factory prior to placing an order to assure you have the most up to date product specification.



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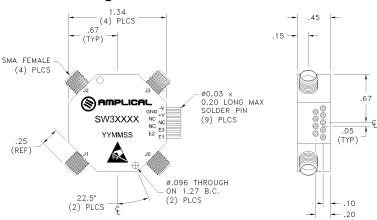
Applications:

- · Communications Systems
- **Electronic Simulators**
- Bypass/Selector Switch
- Test Equipment
- Radar Systems
- EW Systems



- Hermetic Seal
- Alternate DC operating voltage supplies
- MIL / Hi-Rel Screening
- Band-specific performance optimization
- Port-to-port phase and amplitude matching
- Unit-to-unit phase and amplitude matching
- Alternate input port locations
- Reverse control logic
- BCD control logic

Figure I Mechanical Outline:



Outline drawing notes:

- I. Drawing not to scale
- 2. Dimensions in inches 3. Tolerance: $x.xx = \pm 0.020$, $x.xxx = \pm 0.010$
- 4. J0: RF common

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