

# SW1R002 SPST Reflective Switch 500MHz to 18GHz

## **RF** for **RF** Engineers

**Description:** 

Amplical's SW1R002 SPST 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:

Specification
500 MHz to 18 GHz minimum
2.4 dB maximum
2.0:1 maximum (50Ω)
63 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 @ 40mA 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
25 grams maximum
See Figure 1

#### **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.



20 Troy Road Whippany, NJ 07981

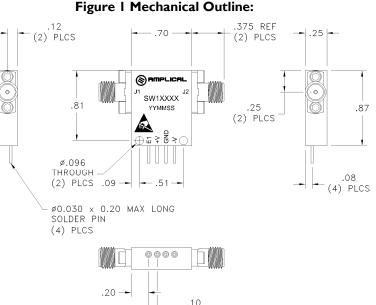
## **Applications:**

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



# **Custom Options:**

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



## (3) PLCS

### **Outline drawing notes:**

I. Drawing not to scale

2. Dimensions in inches 3. Tolerance: x.xx = ±0.020, x.xxx = ±0.010

Phone: 973-386-1119 Fax: 973-386-1131 E-mail: info@amplical.com web: www.amplical.com

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