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for everything

# Wi-Sys Communications Inc.

## WS2803 RF Switch

### Applications:

- ◆ L-Band / S-Band
- ◆ 802.11 WiFi / 2.4 GHz ISM
- ◆ Test & Measurement Equipment



The WS2803 is a general-purpose, high performance, high isolation solid-state L-Band and S-Band RF coaxial switch. The high switching speed also allows for the user to send bursts of RF signal, making it suitable for testing RF detectors, power regulated amplifiers or any other devices operated under rapidly varying RF levels.

### Technical Specifications

#### Electrical

- ◆ Voltage Supply: 4 to 15 VDC
- ◆ Frequency range: 100 MHz to 2.5 GHz
- ◆ Switch Speed: 100 ns typ. (600 ns max.)
- ◆ Impedance: 50 Ohms
- ◆ 1dB Compression point: 27 dBm @ 0.1 – 2GHz
- ◆ VSWR: 1.5 max ( $S_{11}$  and  $S_{22}$ )
- ◆  $I_{p3}$ : 44dBm @ 1900MHz
- ◆ Switch Control Voltage: 0 V to 5V max
  - $V_{IL}$ : 1 V max
  - $V_{IH}$ : 2.3 V min
- ◆ Insertion Loss: 2 dB Max. @ 0.1 to 1.0 GHz  
2.5 dB Max. @ 1.0 to 2.5 GHz
- ◆ Isolation: 50 dB Max. @ 0.1 to 2.5 GHz

#### Mechanical

- ◆ Connectors: RF: SMA Female
- ◆ DC Voltage Supply: 2.1 mm Jack
- ◆ Operating Temp: -40C to +85C
- ◆ Mounting holes: 4.65mm (.180") dia.
- ◆ Dimensions: 73 mm x 39.5 mm x 25.5 mm  
(2.85" x 1.55" x 1.0")
- ◆ Weight: 30g (2.4oz)

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