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No 19, LK 32, Van Canh HUD, Hoai Duc district, Hanoi

# Datasheet SW150\_WB

## **Broadband High-Frequency Switch Module with RS485 Control**

Model: SW150\_WB

#### **Overview**

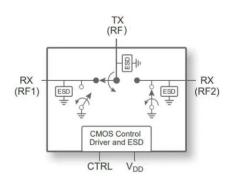
The Broadband RF Switch Module is a high-performance solution designed for wideband applications from 700 MHz to 5900 MHz. Featuring RS485 protocol control, this switch provides reliable performance with low insertion loss, high isolation, and robust power handling capability. Built for mission-critical environments, it ensures stable operation under harsh conditions with extended lifetime and excellent switching performance.

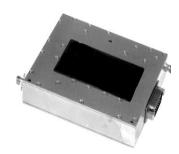
## **Key Features**

- Wide frequency coverage: 700 MHz 5900 MHz
- Low insertion loss: typ. 1.8 dB
- High isolation: ≥ 50 dB
- VSWR: ≤ 2.0 : 1
- High power handling: up to 150 W CW
- RS485 control interface
- Long lifetime: 1 million switching cycles
- Rugged design: operational from -40 °C to +85 °C, 95% RH
- Flexible connector options: N-type or SMA
- Compact and lightweight construction

## **Typical Applications**

- RF Communication Systems
- Electronic Warfare and Jamming
- Test and Measurement Equipment
- Switching Networks for High-Power RF
- Remote-Controlled Antenna Systems







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## **Electrical & Mechanical Specifications**

Parameter Specification

Frequency Range 700 MHz – 5900 MHz

VSWR (max) 2.0:1

Insertion Loss (typ.) 1.8 dB

Isolation (min) 50 dB

Input Power (max, CW) 150 W

Input Port  $1 \times N$ -type or SMA

Output Ports  $2 \times N$ -type or SMA

Switching Time ≤ 100 ms

Lifetime  $\geq 1$  million cycles

Control Interface RS485

Amplitude Balance ±0.3 dB

Supply Voltage 48 V DC (±2 V)

Operating Temperature -40 °C to +85 °C

Operating Humidity ≤ 95% RH

Dimensions  $\leq 300 \times 160 \times 50 \text{ mm}$ 

Weight  $\leq 4 \text{ kg}$ 

#### **Environmental & Reliability**

- Designed for rugged outdoor and laboratory environments
- Shock and vibration resistant
- Long-life mechanical and electronic components ensure reliability