

VAUNIX LSW-802P4T – Absorptive SP4T RF Switch 100-8000 MHz

Lab Brick® phase-matched SP4T switch · USB / Ethernet control · Product Datasheet



FREQUENCY-DEPENDENT RF PERFORMANCE

Parameter	Min	Typ	Max
Insertion Loss up to 3 GHz	–	2.5 dB	3.5 dB
Insertion Loss up to 6 GHz	–	3.75 dB	4.5 dB
Insertion Loss up to 8 GHz	–	4.5 dB	5.5 dB
Isolation RFC → RFx	80 dB	90 dB	–
Isolation RFx → RFx	80 dB	90 dB	–

TECHNICAL SPECIFICATIONS

- **Configuration**
SP4T, absorptive (phase-matched)
- **Frequency Range**
100 – 8000 MHz
- **Impedance**
50 Ω
- **Insertion Loss Variation**
0.25 dB
- **Phase Variation**
+/- 3°
- **Switching Speed**
50 ns (Trise/fall)
- **P1dB**
39 dBm
- **Input IP3**
60 dBm
- **VSWR**
1.5:1 (RFC/RFx ON, RFx OFF)
- **Max. Input Level**
27 dBm (hot switching) / 35 dBm (IL state)
- **RF Connectors**
5x SMA Female
- **Power Supply**
USB-powered, +5 VDC / 100 mA
- **Control**
USB HID / 10/100 Ethernet (WebUI)
- **Software**
GUI, Windows/Linux SDK, LabVIEW driver
- **Dimensions**
106.7 x 83.1 x 21.8 mm
- **Weight**
< 230 g
- **Operating Temp.**
-5 to +55 °C
- **Form Factor**
Standalone / 1RU / 2RU rack mount

APPLICATIONS

<p>Antenna Switching Selection between four antenna or signal paths within a single 50 Ω system</p>	<p>Engineering & Production Test Repeatable, phase-matched switching for test bench and production lines</p>	<p>Automated Test Equipment (ATE) USB HID or Ethernet integration into ATE systems without kernel drivers</p>
<p>Remote Measurement Setups WebUI control with selectable static or dynamic IP assignment</p>	<p>VNA & Multiport Testing Fast path selection for S-parameter and multiport characterization</p>	<p>R&D Lab Automation Scripted switching sequences via Windows/Linux SDK and Python examples</p>