



1x2 Solid-State Fiberoptic Switch Modules

AC Photonics' SW Series switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using patent pending electro-mechanical proprietary configurations and activated via an electrical control signal. The Solid-state operation offers ultra-high reliability and fast switching speed as well as bi-directional performance. The SW fiberoptic switches are true switching solution for optical networking applications.



Features

- Fast Switching Speed
- Ultra-High Reliability
- Latching
- Bi-Directional Operation
- High Repeatability
- Low Cost

Applications

- Optical Signal Routing
- Optical Network Protection/Restoration
- Configurable Optical Add/Drop
- Transmitter and Receiver Protection
- Network Test Systems
- Instrumentation

Performance Specifications

| Parameter | Specification |
|-----------------------------------|----------------------|
| Operating Wavelength (nm) | 1550±50 |
| Insertion Loss (dB) | 1(Max); 0.7(Typ.) |
| PDL (dB) | ≤0.1 |
| Polarization Mode Dispersion (ps) | ≤0.1 |
| Cross Talk (dB) | ≥50 |
| Return Loss (dB) | ≥55 |
| Switching Speed (us) | 200 (Max); 50 (Typ.) |
| Durability(Cycle) | 1 billion |
| Drive Voltage (V) | ± 5 |
| Operating Temperature(°C) | 0~+70 |
| Dimensions (mm) | 66.8x7.8x7.8 |

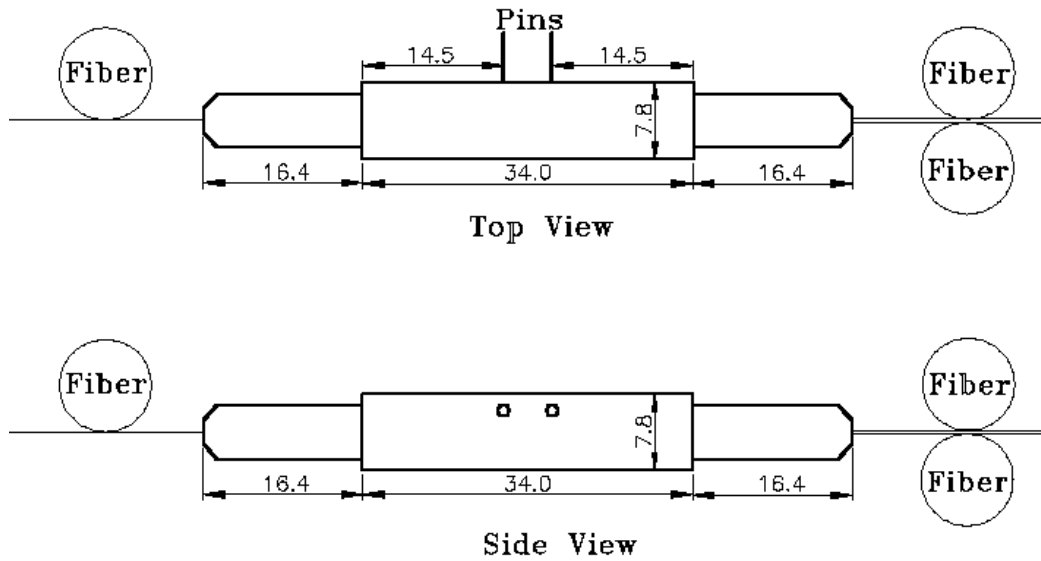
Specifications may change without notice.

Switching Speed<0.2ms

Ordering Information

| SW | <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
|----|---|---|--------------------------------|--------------------------|--|
| | Operating Wavelength | Port | Pigtail Style | Fiber Length | In/Out Connector |
| | 15=1550±50 nm | 0102=1x2 | 1=Bare Fiber 2=900um Jacket | 1=1m 2=2m | 0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC |

Dimension (mm)



Electric Configuration

| Output1 | | Output2 | |
|---------|------|---------|------|
| Pin1 | Pin2 | Pin1 | Pin2 |
| | GND | GND | |

| Parameter | Typical | Min | Max | Unit |
|----------------|---------|-----|-----|------|
| Switch Voltage | 5 | 4.5 | 5.5 | V |
| Switch Current | 140 | 110 | 170 | mA |
| Pulse Duration | >1 | | | ms |

