## V0A-Integrated Optical Switch Array



Applications

- Protection switching
- Channel ON/OFF switching
- Channel ON/OFF switching


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Description
ChemOptics SV1210 is a fully integrated 10ch array device of $1 \times 2$ DOS switches connected with VOAs. The outstanding polymer DOS and VoA technologies are ncorporated to provide fast swiching and conrolable tenuaalon. Win low inserion loss, compact size and nen wid a dow channel swichin system

## Model Number

- 10ch switch array with VOA: SV1210


## Features

- 10ch array of $1 \times 2$ optical switch with VOA
- High reliability (no moving part)
- Compact size

Low insertion loss
Low PDL

- Low power consumption


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Electrical \& Mechanical Specifications

| Parameter | Specifications |
| :---: | :---: |
| Driving Voltage [V] | <5 |
| Power Consumption [mW/ch] (@20dB) | $<80$ |
| Power Consumption [W] (with TEC) | <2 |
| Q max [W] | 3.4 |
| TEC $\quad 1 \max [\mathrm{~A}]$ | 2 |
| TEC $\quad \mathrm{Vmax}[\mathrm{V}]$ | 3.2 |
| $\left.\triangle \mathrm{T}{ }^{\circ} \mathrm{C}\right]$ | $>70$ |
| Thermistor Resistance [kı] (@25 ${ }^{\circ} \mathrm{C}$ ) | 10 |
| Operating Temperature [ ${ }^{\circ} \mathrm{C}$ ] | 0 70 |
| Storage Temperature [ ${ }^{\circ} \mathrm{C}$ ] | -40 ~ 85 |
| Fiber Type | SMF-28, 900 um or Pure Access |
| Dimensions [ $\mathrm{L} \times \mathrm{W} \times \mathrm{H}, \mathrm{mm}$ ] | $82 \times 21.5 \times 9.9$ |

Outline Dimensions and Pin Configurations
Unit : mm

Optical Specifications

| Parameter | Specifications |
| :---: | :---: |
| Number of Channels | $8 / 10$ |
| Operation Wavelength [nm] | $1528 \sim 1610[\mathrm{C}$ \& L band] |
| Insertion Loss [dB] | $<1.7$ |
| VOA Dynamic Range [dB] | $>25$ |
| PDL [dB] (@0~10dB) | $<1.0$ |
| Extinction Ratio [dB] | $>35$ |
| Optical Return Loss [dB] | $>45$ |
| Thermal Crosstalk [dB] | $<0.3$ |
| Chromatic Dispersion [ps nm$]$ | $<1.0$ |
| PMD [ps] $[\mathrm{ms}]$ | $<0.1$ |
| Response Time | $<10$ |
| Maximum Optical Power [mW] | 200 |

Specifications are subject to change at any time at the sole discretion of the company

