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CrystaLatch™ 4x4 Non-Blocking Switch Module

(Protected by U.S. patents 7224860, 6757101, and 6577430)

Product Description

The CrystaLatch™ (CL) type 4x4 fiber optic switch connects optical channels by redirecting any incoming optical signal into any selected output fiber. This is achieved using patented non-mechanical configurations and activated via an electrical control signal. It is a truly non-blocking switching matrix. Latching operation preserves the selected optical path after the drive signal has been removed. The all solid state CL 4x4 fiber optic switch features low insertion loss, high extinction ratio, high channel isolation, and extremely high reliability and repeatability.

It is designed to meet the most demanding switching requirements of continuous operation without failure, longevity, operation under shock /vibration environment and large temperature variations, and fast response time. Comes with computer interface and software.



Features

- Non-Blocking
- High Speed
- High Reliability
- Fail-Safe Latching
- Low Insertion Loss
- Rugged
- Compact
- Direct Low Voltage Drive

Performance Specifications

| CL Series 4x4 Switch | Min | Typical | Max | Unit |
|---------------------------------------|------------------|---------|------|-------|
| Operation Wavelength ^[1] | 1520 | 1550 | 1580 | nm |
| | 1295 | 1310 | 1325 | nm |
| Insertion Loss ^[2] | | 1.5 | 2.8 | dB |
| Cross Talk | 30 | | | dB |
| Optical Switching Speed (Rise, Fall) | 5 | | 10 | µs |
| Repetition Rate | | 2K | | Hz |
| Durability | 10 ¹⁴ | | | cycle |
| Polarization Dependent Loss | | 0.1 | 0.3 | dB |
| Polarization Mode Dispersion | | | 0.2 | ps |
| Return Loss ^[2] | 50 | | | dB |
| Operating Temperature | 0 | | 70 | °C |
| Storage Temperature | -40 | | 85 | °C |
| Optical Power Handling ^[3] | | 300 | 500 | mW |
| Fiber Type | Corning SMF28 | | | |

[1]. L band version available, please call

[2]. Measured without connectors

[3]. High power version available.

Applications

- Optical Signal Routing
- Network Protection
- Signal Monitoring
- Instrumentation

CrystaLatch™ 4X4 Non-Blocking Switch Module



Box: 230 x 145 x 54 mm

Driving kit with variety of control interface, such as USB, RJ45, RS232 with Windows™ GUI, is available.

Ordering Information

| CLSW- | Type | Wavelength | Driver | Package | Fiber Type | Fiber Length | Connector | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|--------------------------------------------|-----------------------|-------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 4x4=44 4x2=42 4x3=43 3x3=33 | 1310=3 1550=5 Special=0 | No driving Kit=1 Driving Kit=2 | Standard=1 Module in box=2 Special=0 | SMF-28=1 Special=0 | Bare fiber=1 900µm loose tube=3 Special=0 | 0.25m=1 0.5m=2 1.0m=3 Special=0 | None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 Special=0 |

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.