



CrystaLatch™ 4x4 Non-Blocking Switch Module

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

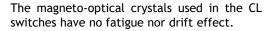
Features

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

Product Description

The CrystaLatchTM (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.





Performance Specifications

CL Series 4x4 Switch	Min	Typical	Max	Unit			
Operation Wavelength [1]	1520	1550	1580	nm			
operation wavetength	1295	1310	1325	nm			
Insertion Loss [2]		1.5	2.8	dB			
Cross Talk	30		3	dB			
Optical Switching Speed (Rise, Fall)	5	2801	10	μs			
Repetition Rate		2K		Hz			
Durability	10 ¹⁵			cycle			
Polarization Dependent Loss		0.1	0.3	dB			
Polarization Mode Dispersion	333		0.2	ps			
Return Loss [2]	50		400	dB			
Operating Temperature	0		70	°C			
Storage Temperature	-40		85	°C			
Optical Power Handling [3]		300	500	mW			
Fiber Type	Corning SMF28						
E47 1 1 1 1 1 1 1 1 1 1							

- [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

Revised on 02/13/23 (Click here for latest revision)

网址:www.bonphot.com 邮箱:sales@bonphot.com 电话:0512-62828421



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

Ordering Information

Prefix	Туре	Wavelength	Driver	Package	Fiber Type	Fiber Cover	Fiber Length	Connector
CLSW-	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 tube=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.

网址:www.bonphot.com 电话:0512-62828421