

CrystaLatch™ 1x2 Fiberoptic PM Switch

Product Description

The CL Series 1x2 PM fiber optical switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using patent pending non-mechanical configurations and activated via an electrical control signal. Latching operation preserves the selected optical path after the drive signal has been removed. CL 1x2 fiberoptic PM 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 requirement of ultra-high reliability and fast response time.



Features

- Solid-State High Speed
- Low Insertion Loss
- High Extinction Ratio
- High Isolation
- Fail-Safe Latching
- Non-Mechanical
- Compact & Rugged
- Direct Low Voltage Drive

Performance Specifications

CL Series 1x2 PM Switch ¹	Min	Typical	Max	Unit
Operation Wavelength	1520	1550	1580	nm
	1310	1295~1325		nm
Insertion Loss ²		0.6	1.0	dB
Channel Cross Talk(Dual Stage) ³	40	50		dB
Extinction ratio	18			dB
Return Loss ²	50			dB
Switching Time(rise, fall)		50	200	μs
Repetition Rate		5K		Hz
Optical Power		300	500	mW
Operating Temperature	0		70	°C
Storage Temperature	-40		85	°C
Fiber Type	Panda PM fiber			
Package Dimension	(L)58.2x(W)8.4x(H)8.4			mm

1. Agiltron can achieve same SPEC at L band
 2. Measured without connectors
 3. The typical crosstalk of single stage is 20dB

Applications

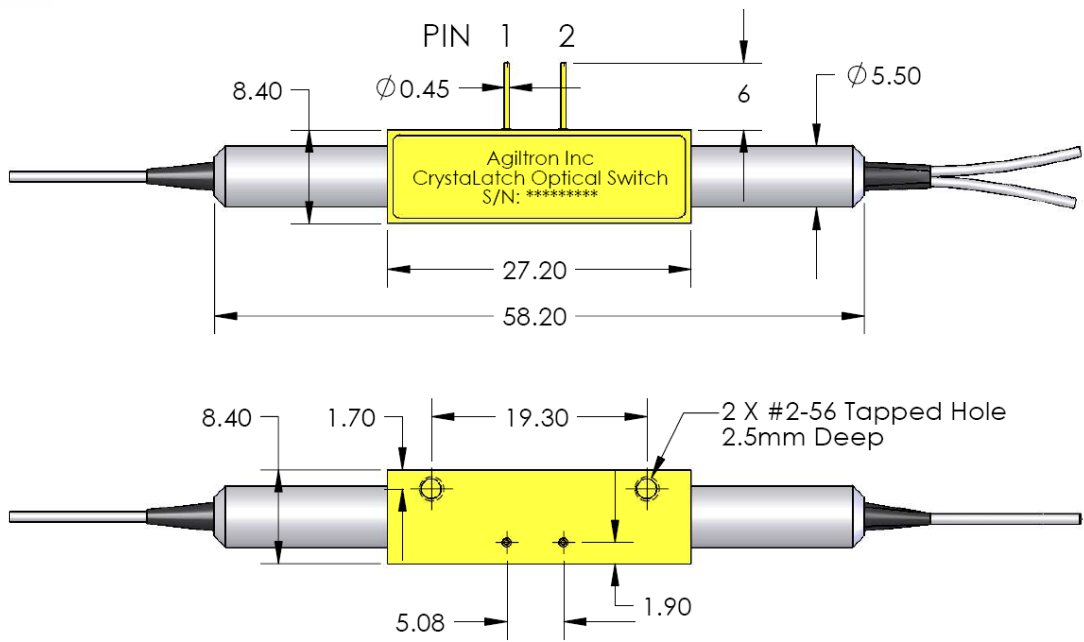
- Optical Signal Routing
- Network Protection/ Restoration
- Burst Switching
- Configurable Add/Drop
- Signal Monitoring
- Instrumentation

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Electrical Connector Configurations

Parameter	Typical	Minimum	Maximum	Unit
Switch Voltage	5	4	6	V
Switch Current	140	120	250	mA
Pulse Duration	1	0.1	100	ms

Evaluation kit with TTL and RS232 interface and Windows™ GUI also available



Ordering Information

CLPM-	Type	Wavelength	Switch	Package	Fiber Type	Fiber Length	Connector	
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1x2=12 2x1=21	1310=3 1550=5 Special=0	Single stage=1 Dual stage=2	Special = 0	PM1300=1 PM14XX=2 PM1550=3	Bare fiber=1 900µm loose tube=3 Special =0	0.25m=1 0.5m=2 1.0=3 Special=0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0