



Product Description

- The N1x2 optical switch is connected to the optical path by connecting or blocking the optical signal. the switch has non-mechanical configurations and activated via an electrical control signal. Products are widely used in aerospace and military equipment.

Feature

- Excellent optical performance
- High-speed operation
- High-reliability mechanism
- All solid-state construction in a compact package

Application

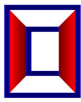
- Optical signal switching independent from data rate and data protocol
- Network protection, restoration and performance monitoring
- Instrumentation
- Variable digital group delay
- Medical, aerospace, and other manufacturing and industrial industries

Specifications

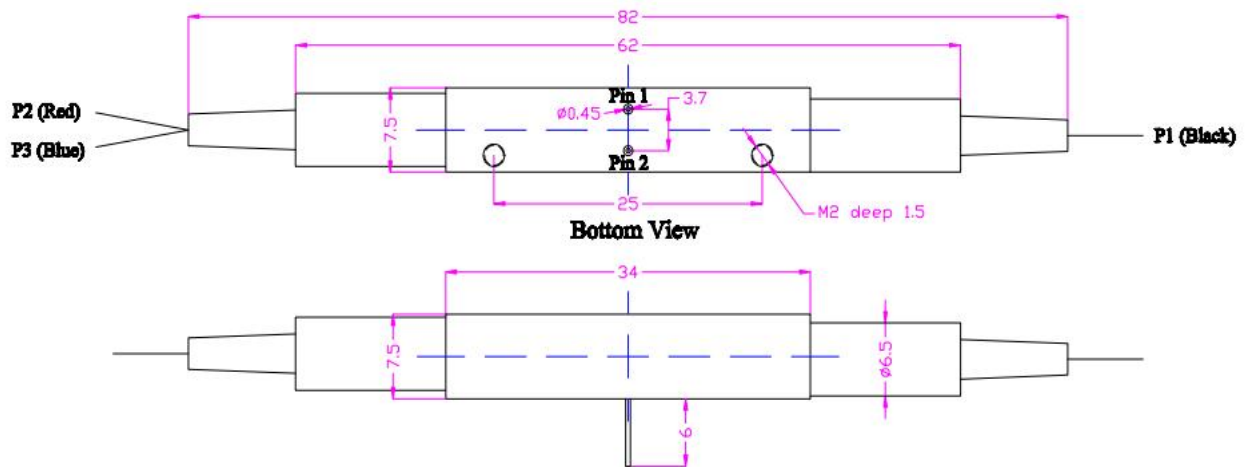
Parameters	Unit	Specifications
Wavelength Range	nm	1500 ~ 1600
Test Wavelength	nm	1550
Insertion Loss ^{1, 2}	dB	≤ 1.5
TDL	dB	≤ 0.30
PDL	dB	≤ 0.20
Return Loss	dB	≥ 50
Crosstalk	dB	≥ 18
Repeatability	dB	≤ ±0.01
Switching Time	ns	≤ 300
Durability	Cycles	≥10 Billions
Switch Type	NA	Non-Latching
Maximum Optical Power	mW	≤ 500
Operating Temperature	°C	-5 ~ +70
Storage Temperature	°C	-40 ~ +85
Dimension	mm	(L)34.0×(W)7.5×(H)7.5 ±0.2

Note: ¹ Test at room temperature and SOP.

² Excluding connectors, 0.2dB for one pair connectors.



Dimension(mm)



Electrical Drive

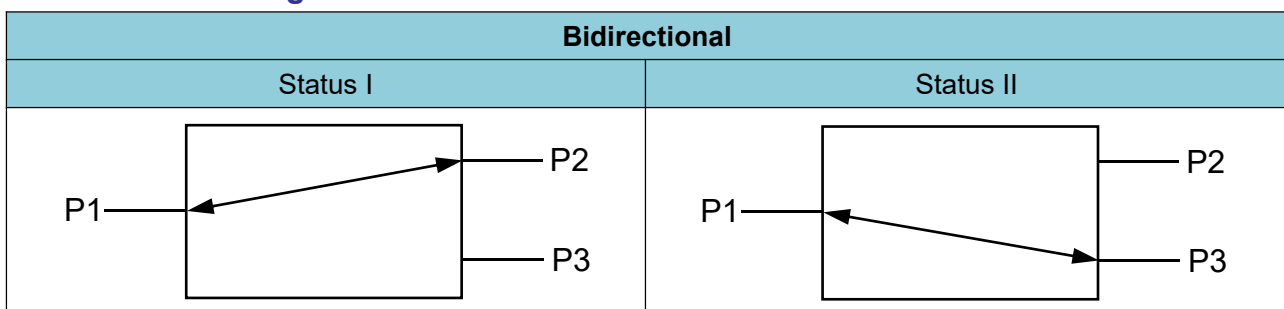
Type	Status	Optical Route	Electric Drive	
			Pin 1	Pin 2
N1x2	I	P1—P2	V基础电压	GND
	II	P1—P3	V驱动电压	GND

备注:

V 基础电压: 持续给产品供电, 电压值大概 70~80V 左右;

V 驱动电压: 通道切换电压, 电压值大概 180~190 左右;

Functional Diagram





 Ordering Information HC-FOS -1×2-A-B-C-D-E-F

A	B	C	D	E	F
Switch Type	Fiber Type	Wavelength	Tube Type	Fiber Length	Connector
B: Bidirectional	PM15: PM1550	1550: 1550nm X: Others	250: 250um 900: 900um X: Others	05: 0.5m±5cm 10: 1.0m±5cm X: Others	OO: None FC: FC/PC FA: FC/APC SC: SC/PC SA: SC/APC LC: LC/PC X: Others