

N1x2 NanoSpeed Fiber Optical Switch

Product Specification

Product Name: NanoSpeed Optical Switch

Model: N1x2

File Number: _____

Version: 1.0

Issuing Date: 2019-07-17

Specification Revision Record					
Date	Version	Page	Revision description	Prepared	Approved

N1x2 NanoSpeed Fiber Optical Switch

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.

Features

- 1.Solid-state high speed
- 2.High Stability, High Reliability
- 3.Epoxy-free on Optical Path

Applications

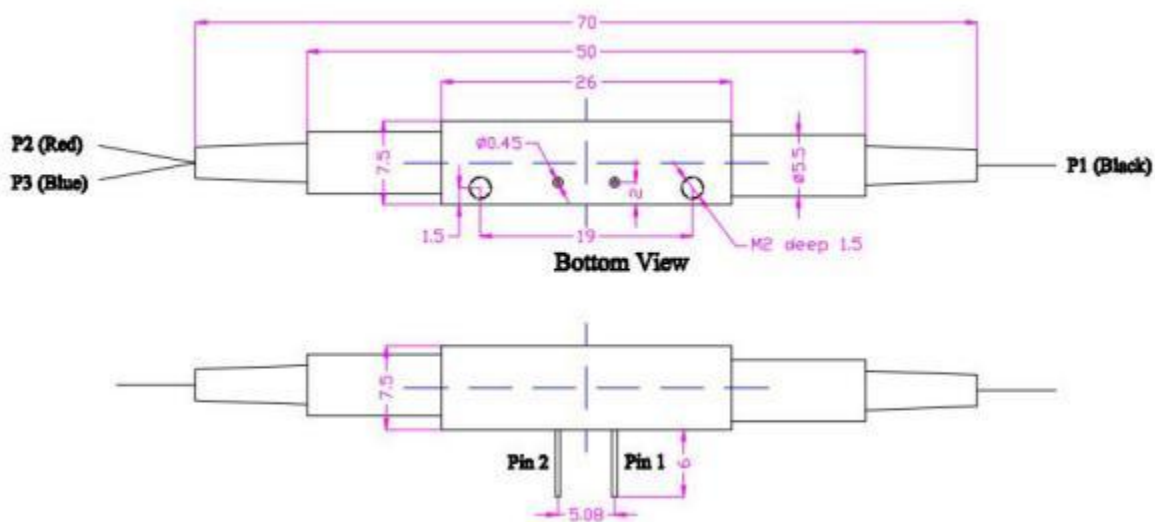
- 1.Aerospace equipment
- 2.Sensing system
- 3.System monitoring

Performance Specifications

Parameters	Unit	Specifications
Wavelength Range	nm	1260 ~ 1650
Test Wavelength	nm	1310 / 1550
Insertion Loss ^{1, 2}	dB	≤ 1.0
TDL	dB	≤ 0.30
PDL	dB	≤ 0.30
Return Loss	dB	≥ 50
Crosstalk	dB	≥ 20
Repeatability	dB	≤ ±0.01
Switching Time	ns	≤ 300
Durability	Cycles	≥ 10 Bllions
Switch Type	NA	Non- Latching
Maximum Optical Power	mW	≤ 500
Operating Temperature	℃	-5 ~ +70
Storage Temperature	℃	-40 ~ +85
Dimension	mm	(L)30.0 ×(W)14.0 ×(H)7.5 ±0.2
Note: ¹ Test at room temperature and SOP. ² Excluding connectors, 0.2dB for one pair connectors.		

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Mechanical Dimensions (Unit:mm)

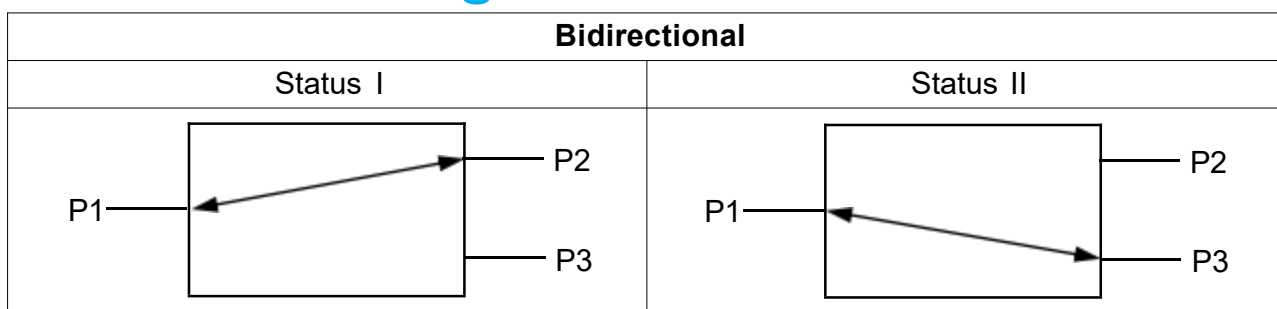


Electrical Drive

Type	Status	Optical Route	Electric Drive	
			Pin 1	Pin 2
N1x2	I	P1—P2	..	..
	II	P1—P3	V+	GND

Note: Voltage range is 300~350V.

Functional Diagram



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Ordering Information

F^{SW}-N1x2-□-□-□-□-□-□-□

—□	—□	—□	—□	—□	—□	—□
Switch Type	Fiber Type	Voltage	Wavelength	Tube Type	Fiber Length	Connector
B: Bidirectional	SM: SM, 9/ 125 X: Others	300: 300~350V	1310: 1310nm 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