1×2 Nanosecond Fiber optic Switch

professional supplier of fiber optical component

The 1x2 Nanosecond 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.

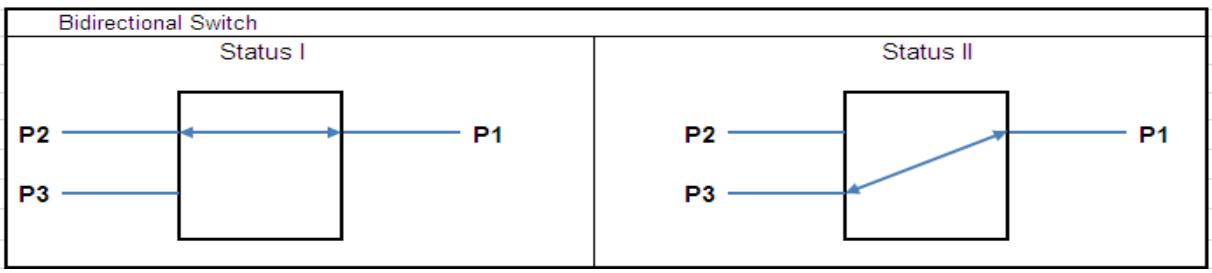
◇Features

- Solid-State
- High speed
- Ultra-high reliability
- Low insertion loss
- Compact

◇ Application

- Optical blocking
- Configurable operation
- Instrumentation

◇ Functional Diagram



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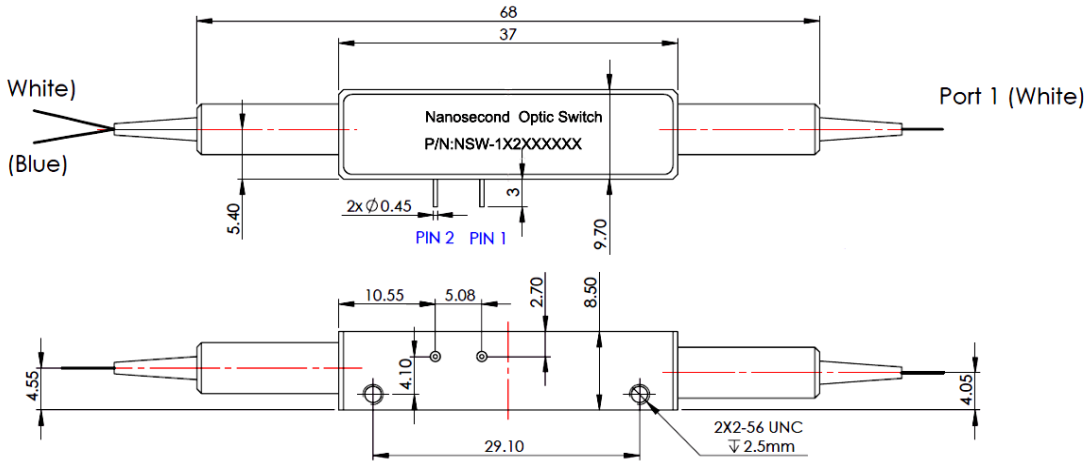
◇ Optical Specifications

Item	unit	Parameter
Wavelength	nm	1525 ~ 1565
Insertion Loss	dB	0.60(Typ.); 1.20(Max)
PDL	dB	0.10(Typ.), 0.20(Max)
Return Loss	dB	≥ 50
Crosstalk	dB	≥ 20
Repeatability	dB	+/- 0.01
Durability	Cycles	> 10^{12}
Switching Speed	ns	< 300
Switching Type	n/a	Non-Latching
Driving voltage	V	300-400
Drive current	mA	<0.5
Operating Temperature	°C	-5 ~ 70
Storage Temperature	°C	-40 ~ 85
Maximum Optical Power	mW	300
Dimension	mm	(L)37×(W)8.5×(H)9.7 ±0.2
Fiber Type	NA	SMF-28

*****.All the specifications are based on the devices without connectors, and guaranteed over the operating temperature ranges, wavelength ranges and all polarization states.

******. Specifications are subject to change without notice.

◇ Mechanical Dimensions (mm)



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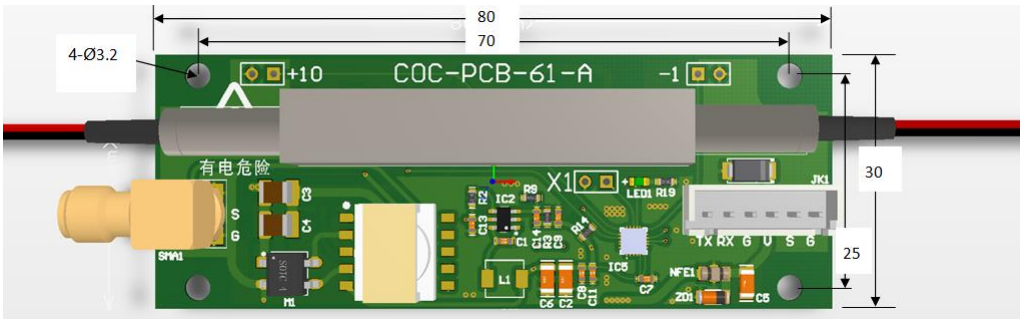
◇ Electrical Driving Information

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

◇ Mechanical Dimensions, mounting on 300KHz driver (mm)



Optical Route	TTL	Power
Port1----Port2	L:0V	5V /2A
Port1----Port3	H:>3.3V	

◇ Ordering Information：NSW-N1*2ABCDEF

A	B	C	D	E	F	G
Type	Mode	Wavelength	Fiber Diameter	Fiber Length	Connector	Driving Board
B：Bidirectional	SM:SMF28	13: 1310nm	25:250um	05:0.5m	OO:None	D01:100KHz
		15: 1550nm	90:900um	10:1.0m	FP: FC/PC	D03:300KHz
				15:1.5m	FA: FC/APC	
					SP: SC/PC	
					SA: SC/APC	
					LP: LC/PC	
					LA: LC/APC	

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