

1x4 Optical Switch (Mini Type)

Features

Compact Size
High crosstalk & Low Insertion Loss

Applications

Optical Cross and Connection System
Network Monitor

Specifications

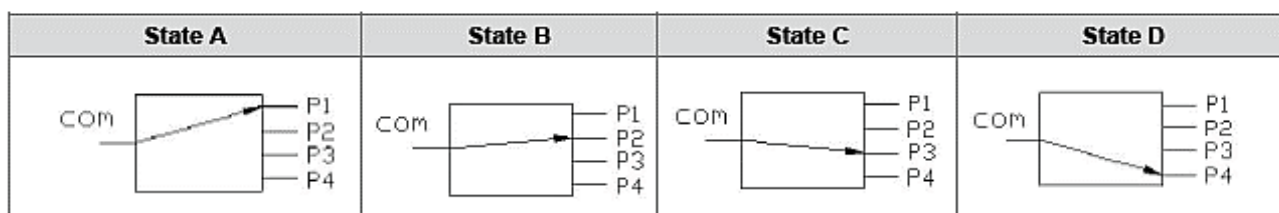


Parameters	Unit	1x4
Wavelength Range	nm	1260~1650, 850
Test Wavelength	nm	1310/1550, 850
Insertion Loss (T_{op} , SOP, Exclude Connector)	dB	≤ 1.0 (Typ 0.8) for SM, ≤ 1.2 (Typ 1.0) for MM
Polarization Dependent Loss	dB	≤ 0.1
WDL	dB	≤ 0.25
Return Loss (Top, SOP, Exclude Connector)	dB	≥ 50 for SM, ≥ 30 for MM
Cross Talk (Top, SOP)	dB	≥ 50
Voltage Pulse Width (Latching)	ms	≥ 20
Repeatability	dB	$\leq \pm 0.05$
Operating Voltage	V	3.0 or 5.0
Durability	Cycles	≥ 10 Million
Switching Time	ms	≤ 8
Optical Power	mW	≤ 500
Fiber Type		SMF-28e, MMF 50/125, 62.5/125
Operating Temperature	°C	-20 ~ +70
Storage Temperature	°C	-40 ~ +85
Dimensions (LxWxH)	mm	20×17.6×8 (±0.2)

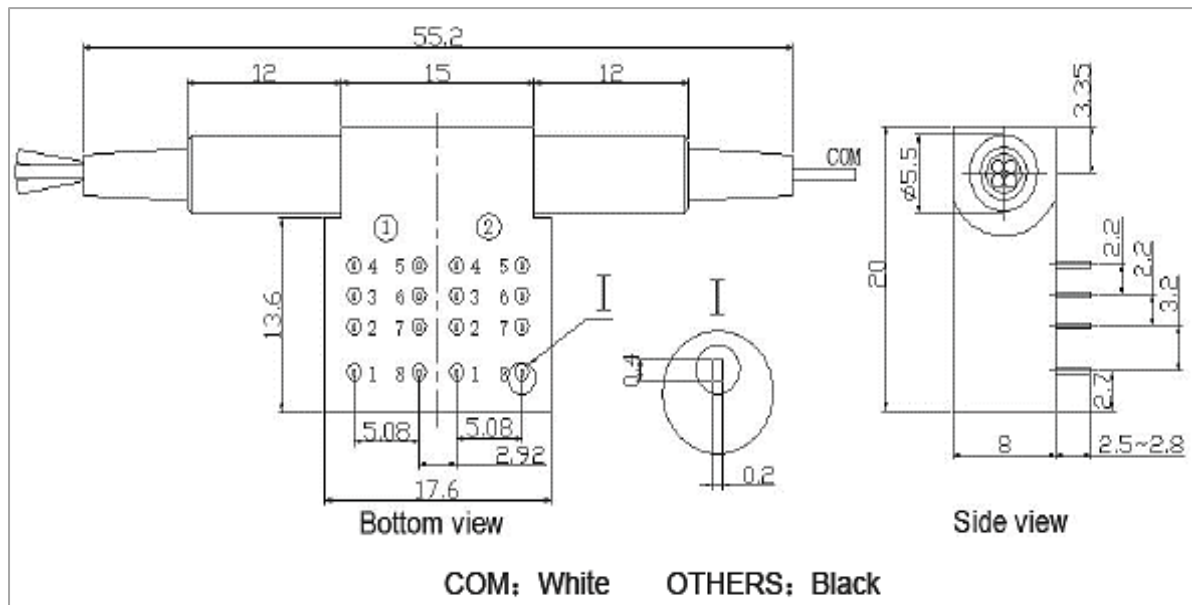
Pins Configurations

Type	State	Route	Electric Drive				Status Sensor			
1x4			①		②		①		②	
			Pin 1	Pin 8	Pin 1	Pin 8	Pin 2-3 Pin 6-7	Pin 3-4 Pin 5-6	Pin 2-3 Pin 6-7	Pin 3-4 Pin 5-6
Latching	A	COM-P1	GND	V+	GND	V+	Close	Open	Close	Open
	B	COM-P2	V+	GND	GND	V+	Open	Close	Close	Open
	C	COM-P3	GND	V+	V+	GND	Close	Open	Open	Close
	D	COM-P4	V+	GND	V+	GND	Open	Close	Open	Close
Non-Latching	A	COM-P1	-	-	-	-	Close	Open	Close	Open
	B	COM-P2	V+	GND	-	-	Open	Close	Close	Open
	C	COM-P3	-	-	V+	GND	Close	Open	Open	Close
	D	COM-P4	V+	GND	V+	GND	Open	Close	Open	Close

Optical Route



Package Dimension



Electrical Specification

Specifications		Voltage	Current	Resistance
5V	Latching	4.5~5.5 V	22.2 (±10%) mA	202.5 (±10%) Ω
5V	Non-latching	4.5~5.5 V	31 (±10%) mA	145 (±10%) Ω
3V	Latching	2.7~3.3 V	33.3 (±10%) mA	90 (±10%) Ω
3V	Non-latching	2.7~3.3 V	46.7 (±10%) mA	64.2 (±10%) Ω

Ordering Information

OSW- (1)(1)(1)-(2)(2)(2)-(3)(3)-(4)-(5)(5)(5)-(6)-(7)-(8)(8)

①	Port Type	1x4;
②	Test Wavelength	850; 1310; 1550; 1310/1550;
③	Voltage Type	3V; 5V;
④	Mode	L=Latching; N=Non-Latching;
⑤	Pigtail Type	250=250μm Fiber; 900=900μm Loose Tube;
⑥	Fiber Type	1=SMF-28; 2=50/125; 3=62.5/125;
⑦	Fiber Length	1= 1m;
⑧	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;