Feature

- Compact structure
- Low crosstalk
- Fast switching speed
- Low insertion loss
- Wide wavelength range

Application

- PON Network
- Protection
- Instrumentation
- Network monitor

Specifications

Parameters	Unit	HC-OSW-1×2	
Operating Wavelength	nm	SM:1260~1620	MM:850±40
Test Wavelength	nm	1310 / 1550	850
Insertion Loss	dB	≤0.7 (typical : 0.5)	
Wavelength Dependent Loss	dB	≤0.25	
Temperature Dependent Loss	dB	≤0.2	
Polarization Dependent Loss	dB	≤0.05	
Return Loss	dB	SM≥50 , MM≥30	
Crosstalk	dB	SM≥55 , MM≥35	
Repeatability	dB	≤±0.02	
Swtich Time	ms	≤8	
Durability	times	≥10 million	
Operating Voltage	V	3.0 or 5.0	
Optical Power	mw	≤500	
Operating Temperature	℃	-5~+70	
Storage Temperature	℃	-40~+85	
Operating Humidity	RH%	5~95	
Dimension	mm	L27xW12xH8.2	
Note:1.Within operating temperature and all SOP. 2.Excluding connector, and add 0.2dB IL for each connector.			

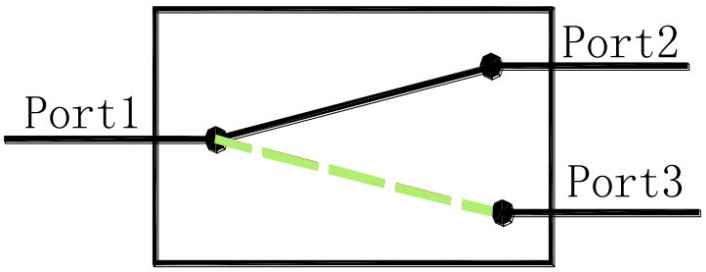
Pin Configurations

Type	State	Optical Route	Electric Drive				State Sensor			
1x2			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	A	P1-P2	-		GND	V+	Close	Open	Open	Close
	B	P1-P3	V+	GND		-	Open	Close	Close	Open
Non-latching	A	P1-P2	-				Close	Open	Open	Close
	B	P1-P3	V+	-	-	GND	Open	Close	Close	Open

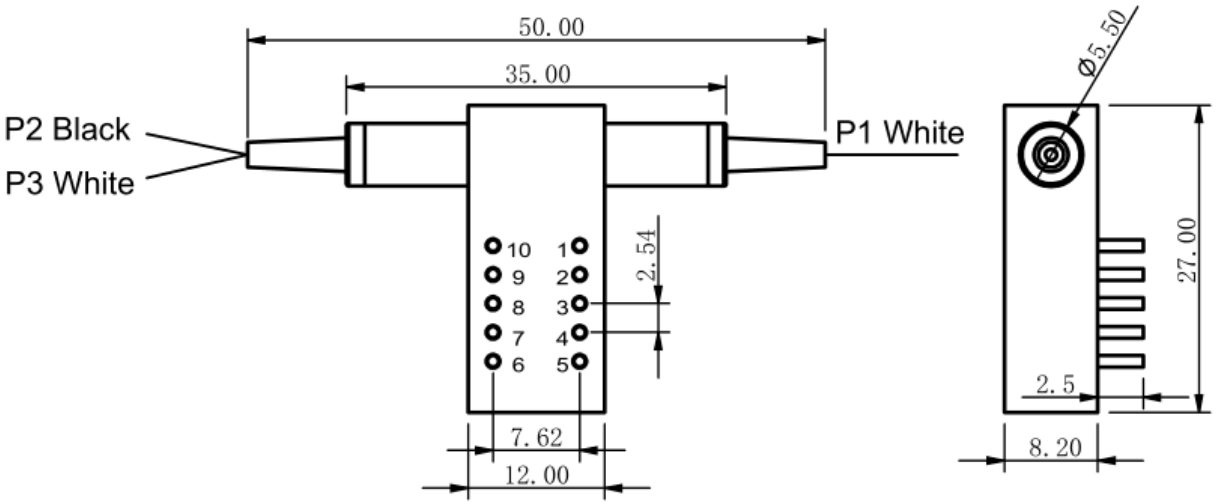
Electrical Specification

Type		Voltage	Current	Resistance
5V	Latching	4.5~5.5V	36~44mA	125Ω
5V	Non-latching	4.5~5.5V	26~32mA	175Ω
3V	Latching	2.7~3.3V	54~66mA	50Ω
3V	Non-latching	2.7~3.3V	39~47mA	70Ω

Optical Route



Dimension(mm)



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

A	B	C	D	E	F
Test Wavelength	**Type**	**Fiber Type**	**Fiber Dimension**	**Fiber Length**	**Connector**
850: 850nm	3L: Latching	SM: Single Mode	025: Φ0.25mm	05: 0.5m	00: None
1310: 1310nm	3N: Non-latching	M1:Multi-mode 50/125	09: Φ0.9mm	10: 1.0m	FP: FC/UPC
1550: 1550nm	5L: Latching	M2:Multi-mode 62.5/125	X: other	15: 1.5m	FA: FC/APC
D: 1310/1550nm	5N: Non-latching	X: other		X: other	SP: SC/UPC
X: other					SA: SC/APC
					LP: LC/UPC
					LA: LC/APC
					X: other