

1² (Type C) Opto-Mechanical Switch

Features:

- Fast Switching Speed
- Broad Wavelength Range
- Ultra-low Loss
- Latching or Non-latching Configuration
- RoHS Compliant

Applications:

- Sub-system Integration
- Configurable OADM
- Test & Measurement Equipment
- Optical Network Protection



Specifications^{1, 2, 3}:

Parameter	Unit	Grade 2A ²	
Central Wavelength (l c)	nm	1310, 1550, 1310 & 1550	
Bandwidth	nm	100	
Insertion Loss	Typ.	0.35	
	Max.	0.6	
Return Loss	Typ.	60	
	Min.	55	
PDL	Typ.	0.03	
	Max.	0.05	
Switching Time	Typ.	5	
	Max.	8	
Cross-Talk	Typ.	70	
	Min.	60	
Switching Speed	Max.	10	
Switch Voltage	V	4.5~5.5	
Durability	Min.	cycles	10 million
Repeatability ⁴	Typ.	dB	+/-0.01
	Max.		+/-0.02
Fiber Type			Corning SMF-28e
Fiber Length	Min.	m	1.0
Power Handling	Max.	mW	500
Operating Temperature		°C	0~70
Storage Temperature		°C	-40~85
Package Dimension		mm	Type C: (L)55 (W)26 (H)12

1. Values referenced without connectors.

2. On-off switch available.

3. Custom fiber, central wavelength, switch voltage are available upon request.

4. Repeatability measured at room temperature for 100 cycles.

Package¹:

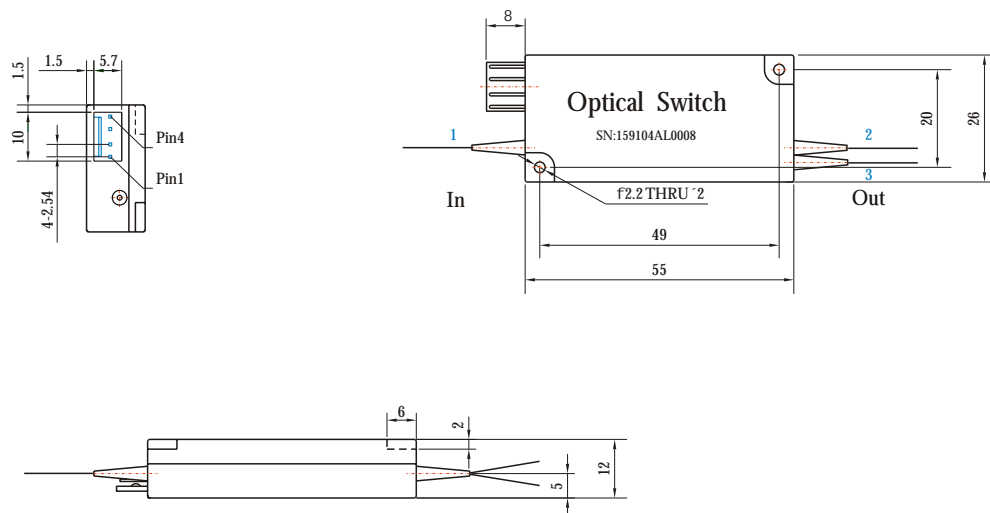
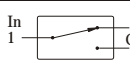
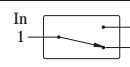


Figure 1. Package Type C

Control Method	In1 - Out2 					In1 - Out3 				
	Switch Control				Position Indicator	Switch Control				Position Indicator
	Pin1	Pin2	Pin3	Pin4	Pin3 and Pin4	Pin1	Pin2	Pin3	Pin4	Pin3 and Pin4
Non-latching 2-Pin Control	GND	5VDC			Contact Close	GND	GND			Open Contact
Latching 2-Pin Control	5VDC	GND			Contact Close	GND	5VDC			Open Contact
Latching 3-Pin Control	N/A	GND	5VDC		Contact Close	GND	N/A	5VDC		Open Contact
Latching 4-Pin Control	5VDC	GND	N/A	N/A		N/A	N/A	GND	5VDC	

Order Information:

KSWT - XXX - X - XXXX - XXXX - XX - XX
 A B C D E F

A	Configuration	1`1=1`1 type
		1`2=1`2 type
B	Package Type	C=Type C
		S=Custom
C	Fiber Type	250S=250mm bare fiber
		900L=900mm loose tube
		900T=900mm tight buffer
D	Wavelength	1310=1310nm
		1550=1550nm
		1315=1310 & 1550nm
E	Control Method (for Type C only)	N2=Non-latching 2-Pin Control
		L2=Latching 2-Pin Control
		L3=Latching 3-Pin Control
		L4=Latching 4-Pin Control
F	Connector	NN=W/O connector
		XY=With connector ¹

1. Please specify the type of connector when ordering.

Mechanical Type	Other	SC	FC	ST	MU	LC
X	0	1	2	3	4	5
Physical Contact Type	Other	PC	UPC	APC		
Y	0	1	2	3		