

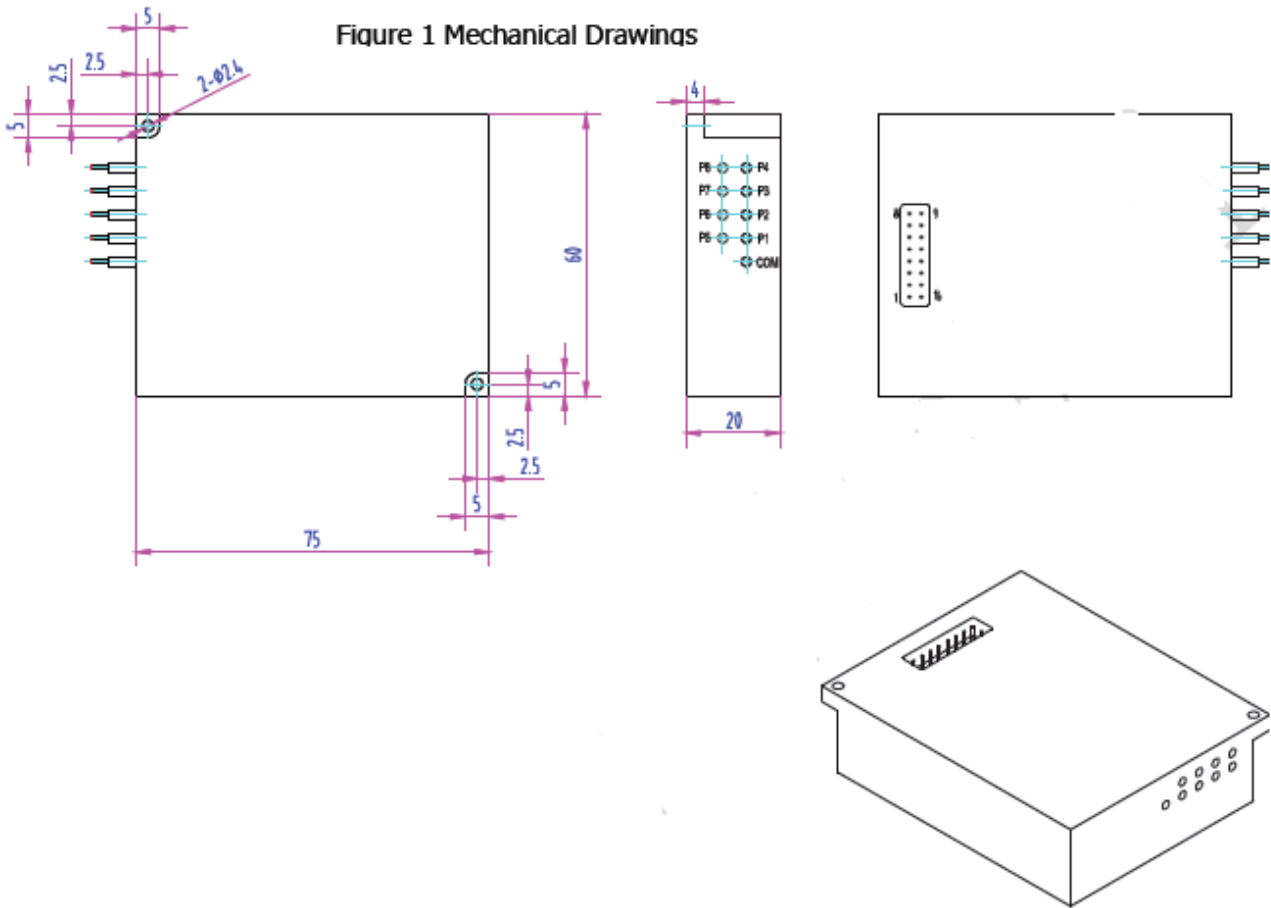
Mini Optical Switch (1x4, 1x8)

Features	
Based on Free space designed Low IL, Low PDL, Fast Switch speed	
Application	
OXC, OLP, ROADM Wavelength switch of testing system Channel switch of optic sensor system	

Specifications

Parameter	Value	
Type	1x4	1x8
Wavelength (nm)	1280~1340 or/and 1520~1610	
Insertion Loss (dB)	≤1.0	≤1.5
WDL (dB)	≤0.2	
PDL (dB)	≤0.1	
Repeatability (dB)	≤±0.05	
Cross Talk (dB)	≥60	
Switch Speed (ms)	<10	
Return Loss (dB)	≥45	
Switch Type	Latching	
Operating Voltage (V)	Min.4.5, Max 6.5	
Switch Current (mA)	120	
Power handling (mW)	500	
Durability (cycles)	>10 ⁷	
Operating Temperature (°C)	-5~+65	
Storage Temperature (°C)	-40 ~ 85	
Fiber Type	SMF-28e	
Fiber length (m)	1.0	
Dimension (LxMxH) (mm)	75x60x20	

Figure 1 Mechanical Drawings



Unit: mm

Optical Ports and Electronic Pins Definition

Light Path	Control Input								Common Input				Status Output			
	1B	1A	2B	2A	3B	3A	4B	4A	V+		GND		S4	S3	S2	S1
	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8	Pin9	Pin10	Pin 11	Pin 12	Pin1 3	Pin1 4	Pin1 5	Pin1 6
Com-P1	0V	+5V	+5V	0V	+5V	0V	+5V	0V	+5V	+5V	GND	GND	GND	GND	GND	+5V
Com-P2	+5V	0V	0V	+5V	+5V	0V	+5V	0V	+5V	+5V	GND	GND	GND	GND	+5V	GND
Com-P3	+5V	0V	+5V	0V	0V	+5V	+5V	0V	+5V	+5V	GND	GND	GND	+5V	GND	GND
Com-P4	+5V	0V	+5V	0V	+5V	0V	+5V	0V	+5V	+5V	GND	GND	GND	GND	GND	GND
Com-P5	0V	+5V	+5V	0V	+5V	0V	0V	+5V	+5V	+5V	GND	GND	+5V	GND	GND	+5V
Com-P6	+5V	0V	0V	+5V	+5V	0V	0V	+5V	+5V	+5V	GND	GND	+5V	GND	+5V	GND
Com-P7	+5V	0V	+5V	0V	0V	+5V	0V	+5V	+5V	+5V	GND	GND	+5V	+5V	GND	GND
Com-P8	+5V	0V	+5V	0V	+5V	0V	0V	+5V	+5V	+5V	GND	GND	+5V	GND	GND	GND

Ordering Information

OSW	Type	Wavelength	Mode	Pigtail Type	Fiber Type	Length	Connector
	1x4 1x8	15=1550 13=1310 1315=1310/1 550	L=Latching	250=250um bare fiber 900=900um loose tube 3000=3mm loose tube	1=SMF-28e	1= 1m	NE=None FA=FC/APC FC=FC/UPC SA=SC/APC SC=SC/UPC LC=LC/UPC MU=MU/UPC XX=Other