2X2 Bypass Mechanical Optical Switch

Application

- Network Switching
- Configurable optical Add/Drop multiplexing
- Network Protection and Monitoring
- Instrumentation, Testing and Measurement

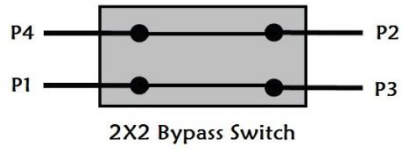
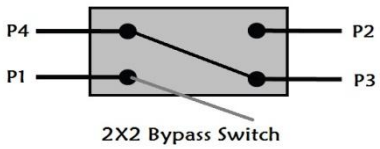
Specifications

Parameters	Unit	2×2 Bypass Mechanical Switch	
Wavelength Range	nm	1310±50 or 1550±50	1260 ~ 1650
Test Wavelength	nm	1310 or 1550	1310 and 1550
Insertion Loss	dB	≤ 0.7 (typical: 0.5)	≤ 0.8 (typical: 0.6)
Wavelength Dependent Loss	dB	≤0.20	≤0.25
Return Loss	dB	≥ 50 (typical: 55)	
Crosstalk	dB	≥ 55(typical: 60)	
Polarization Dependent Loss	dB	≤0.05(typical: 0.03)	
Temperature Dependent Loss	dB	≤0.2	
Repeatability	dB	≤±0.02	
Operating Voltage	VDC	5	
Durability	Cycles	≥ 10 Million	
Switching Time	ms	≤8	
Optical Power	mw	≤500	
Operating Temperature	℃	-20~ +70	
Storage Temperature	℃	-40 ~ +85	
Relative Humidity	%	≤85	
Dimension (L) x (W) x (H)	mm	21.0×11.5×8.0	

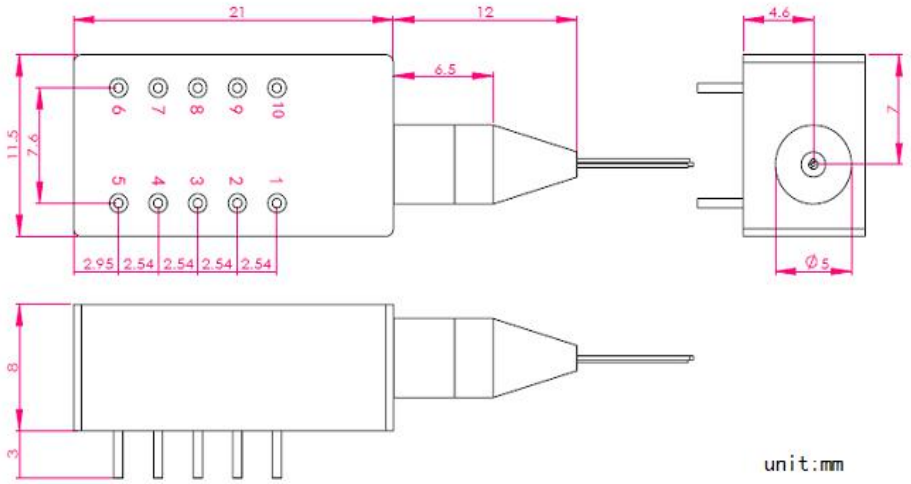
Pin Configurations

Type	State	Optical Route	Electric Drive				Status Sensor			
2×2 Bypass			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	A	P1-P3, P4-P2	V+	GND	--	--	Open	Close	Close	Open
	B	P4-P3	--	--	GND	V+	Close	Open	Open	Close
Non-latching	A	P1-P3, P4-P2	V+	--	--	GND	Open	Close	Close	Open
	B	P4-P3	--	--	--	--	Close	Open	Open	Close

Optical Route

State A	State B
	

Dimension



Ordering Information

MESWI	XX	XX	XX	X	XX	XX/XX
	Operating Wavelength	Switch type	Fiber Type	Fiber Jacket	Fiber Length	Connector
	78=780	L:Latching	SM	0=250um	10=1m	FC/UPC
	85=850	N:Non-latching	MM, 50/125	1=900um	15=1.5m	FC/APC
	98=980	…	MM, 62.5/125	4=specify	20=2m	SC/UPC
	03=1030		SS	…	SS=specify	…
	…		…		…	