

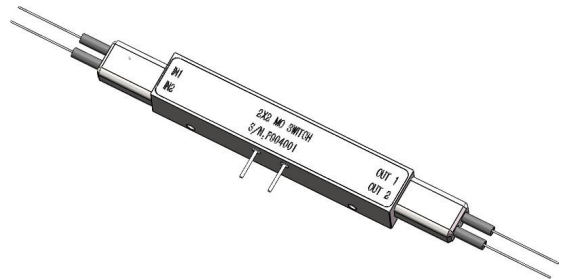
2x2 Magnet Optical Switch

Product features

Excellent stability and reliability
Fast switching speed without moving components
Extremely stable latch mode with low power consumption

Application

Passive optical network;
Optical protection system ;
measurement system ;
network monitoring.



Technical parameters

Parameter	Unit	HC-UMS-2×2		Unit
		One-way	Two-way	
Wavelength Range	nm	1525 ~ 1565		Other band
Insertion Loss	dB	0.7(Typ.);1.1(Max)	0.8(Typ.);1.2(Max)	
PDL (Polarization Dependent Loss)	dB	0.10(Typ.);0.20(Max)	0.10(Typ.);0.30(Max)	
Return Loss	dB	45	30	
Crosstalk	dB	40	30	
Repeatability	dB	+/- 0.01		
Durability	Cycles	> 100 Billions		
Switching Speed	s	Regular (50~200); Ultra-fast (5~20)		
Maximum Optical Power	mW	500		
Storage Temperature	°C	-40 ~ 85		
Operating Temperature	°C	-5 ~ 70		
Dimension (L × W × H)	mm	63 × 8 × 7		

Electric control parameter

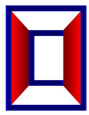
Parameter	Specification		Unit
	Regular	Ultra-fast	
Switching Speed	50~200	5~20	μs
Switching Voltage(VCC)	3(+/-5%)	5.0~6.0	V
Switching Current	< 200	< 500	mA
Pulse Width(typical)	1000	20	μs
Claim Frequency	< 800	< 3000	Hz

Drive pin definition unidirectional

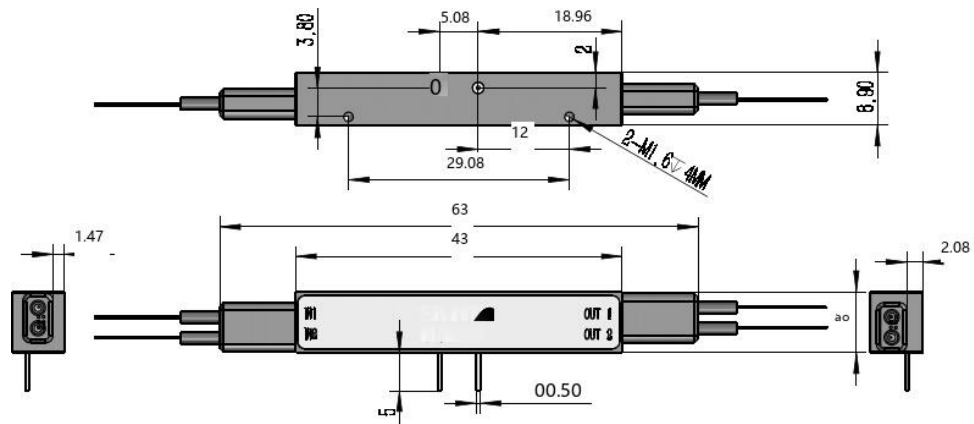
Switching State	Pin1	Pin2	The Optical Output Port
State "0"	1(Voltage = VCC)	0(Voltage = GND)	IN1→OUT 1; IN2→OUT 2
State "1"	0(Voltage = GND)	1(Voltage = VCC)	IN1→OUT 2; IN2→OUT 1

Two-way

Switching State	Pin1	Pin2	The Optical Output Port
State "0"	1(Voltage = VCC)	0(Voltage = GND)	IN1↔OUT 1; IN2↔OUT 2
State "1"	0(Voltage = GND)	1(Voltage = VCC)	IN1↔OUT 2; IN2↔OUT 1



Dimension (mm)



Ordering information HC—UMS-2×2-A-B-C-D-E-F-G

A	B	C	D	E	F
Working Mode	Switching Speed	Operating Wavelength	Fiber Tuber	Fiber Length	Connector Type
1. Regular 2. Bidirectional	1.50~200us 2.5~20us 3. Others	1. C Band 1525~1565 nm 2. L Band 1565-1615 nm 3. C & L Band 4. Others	1. 250μm fiber 2. 900μm fiber 3. Others	1. 0.5 +/- 0.1 m 2. 1.0 +/- 0.1 m 3. Others	0. No Connector 1. FC/UPC 2. FC/APC 3. SC/UPC 4. SC/APC 5. LC/PC 6. MU/PC 7. Others