

850nm High Power Polarization-Independent Isolator



● Product Description

The 850nm high-power polarization-insensitive isolator features low insertion loss, high isolation, high power handling, high return loss, and excellent environmental stability and reliability. It is an ideal choice for fiber lasers and instrument applications.

● Product features

Low insertion loss, high isolation, Compact structure, High peak power

● Part Number

MP-ISO-F-850-A-S-SA-1

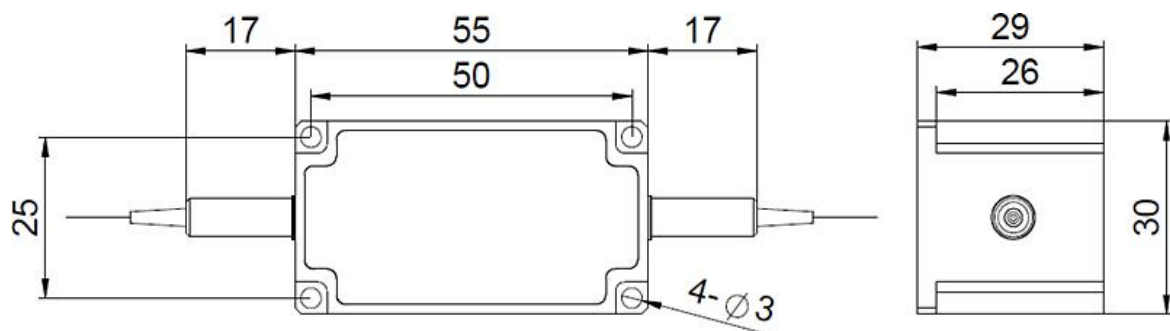
● Application area

Fiber sensing, Ultrashort pulse lasers, Laser communication

● Core parameters

Center Wavelength	Peak Isolation	Max.Polarization Loss
850nm	30dB	0.2dB

● Dimension Drawing





● General Parameters

Parameters

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	850
Operating Band	nm	$\lambda_c \pm 20$
Typical Peak Isolation	dB	30
Minimum Isolation at λ_c , 23°C, all polarization states	dB	25
Typical Loss at 23°C	dB	1
Maximum Loss at 23°C	dB	1.2
Minimum Return Loss (Input/Output)	dB	50/50
Maximum Polarization Loss	dB	0.2
Maximum Average Power	W	1
Maximum Peak Power (Pulsed Light)	kW	2
Maximum Tensile Load	N	5
Fiber Type		HI 780 fiber
Operating Temperature	°C	10 to +50
Storage Temperature	°C	0 to +60

Ordering info

MP-ISO-F-①①-②②-③-④-⑤-⑥-⑦

①①: Wavelength	85 - 850 nm, SS - Specify
②②: Handling Power	0.3 - 0.3 W, 01 - 1 W, SS - Specify
③: Connector Type	1 - FC/UPC, 2 - FC/APC, 3 - SC/UPC, 4 - SC/APC, N - None, S - Specify
④: Fiber Jacket	B - Bare fiber, L - 900 μm loose tube, S - Specify
⑤: Fiber Length	1 - 1.0 m, S - Specify
⑥: Fiber Type	1 - HI 780 fiber, S - Specify
⑦: Power Type	P - Pulse application, C - Continuous wave