



## Multimode Pump Protector (MMPP Series)

Rev 11

The Multimode Pump Protector is a micro optic device based on environmentally stable thin film filter technology. It is used to block out unwanted noise signals in multimode fiber communication systems. The components are characterized with high isolation, low insertion loss, high return loss, excellent environmental stability and high power handling capability.

### Specifications

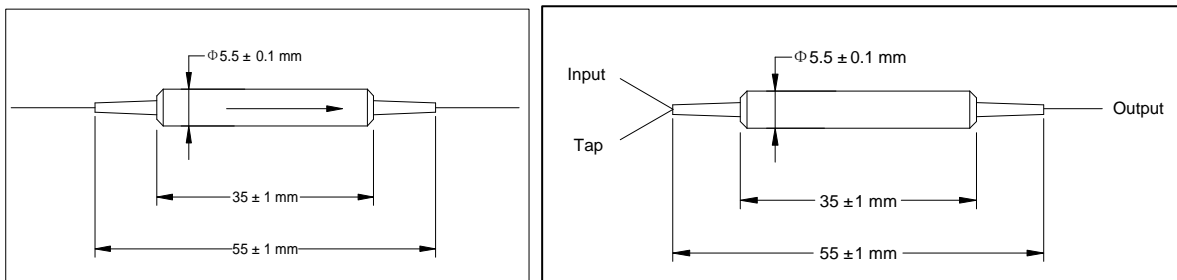
Parameter	Unit	Value
Pass Wavelength Range	nm	900 - 1000 or specify
Max. Insertion Loss	dB	0.7
Blocked Wavelength Range	nm	1020 - 1120; 1500 - 1600 or specify
Min. Isolation	dB	25
Min. Return Loss	dB	30
Max. Polarization Dependent Loss	dB	0.10
Thermal Stability	dB/°C	0.003
Max. Input Power	W	10
Max. Tensile Load	N	5
Fiber Type		Multimode fiber 105/125, 62.5/125, 50/125 $\mu\text{m}$
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

\*IL is 0.5 dB higher, RL is 10 dB lower for each connector added.

\*\*Above specifications are measured at low order modes.

\*\*\*If optical power higher than 1 W out of passband, third port should be added to guide it.

### Package Dimensions



### Ordering Information

MMBP-①①①①-②-③-④-⑤-⑥

①①①①: Wavelength	②: Port	③: Fiber Core	④: Connector Type
9806 - 980 Pass/1060 Block	2 - 2 ports	1 - 50 $\mu\text{m}$	1 - FC/UPC
9855 - 980 Pass/1550 Block	3 - 3 ports	2 - 62.5 $\mu\text{m}$	2 - FC/APC
SSSS - Specify		3 - 105 $\mu\text{m}$ N.A. 0.15	3 - SC/UPC
		4 - 105 $\mu\text{m}$ N.A. 0.22	4 - SC/APC
		S - Specify	N - None
⑤: Fiber Jacket	⑥: Fiber length		S - Specify
B - 250 $\mu\text{m}$ bare fiber	1 - 1.0 m		
L - 900 $\mu\text{m}$ loose tube	S - Specify		
S - Specify			