



High Power Telecom Wavelength PM Isolator

FEATURES

High Isolation
 Low Insertion Loss
 High Return Loss
 High Extinction Ratio
 Epoxy Free Optical Path

APPLICATION

Fiber optic Amplifiers
 CATV Fiber optic Links
 Fiber optic Systems Testing
 Fiber optic LAN Systems
 Telecommunications

PERFORMANCE SPECIFICATIONS

Parameter	Specifications			
	Single		Dual	
Operating Wavelength	1310nm,1550nm,1585nm or Custom			
Stage	Single		Dual	
Grade	P	A	P	A
Typical Peak Isolation	≥42dB	≥40dB	≥58dB	≥55dB
Minimum Isolation*	≥30dB	≥28dB	≥46dB	≥45dB
Typical Insertion Loss**	0.40dB	0.50dB	0.50dB	0.70dB
Insertion Loss***	≤ 0.60dB	≤ 0.70dB	≤ 0.70dB	≤ 0.90dB
Return Loss (In/Out)	≥55/50dB	≥55/50dB	≥55/50dB	≥55/50dB
Extinction Ratio	≥20dB	≥18dB	≥20dB	≥18dB
Average Optical Power	1, 3, 5, and 10W			
Peak Power for ns Pulse	≤10kW			
Max. Tensile Load	≤5N			
Fiber Type	PM Panda fiber or Custom			
Operating Temperature	-20 to +70°C			
Storage Temperature	- 40 to +85°C			
Package Type	Standard			
Package Dimensions	A= Ø 5.5 x L35 (Optical power: ≤ 5W) Ø 6.0 x L48 (Optical power: 6 - 10W)			

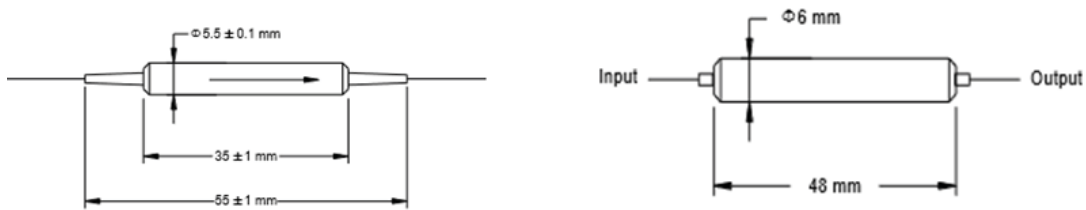
Note: * $\lambda_c \pm 10$ nm, 23°C, all polarization states.
 ** $\lambda_c \pm 20$ nm, 23°C, all polarization states.
 *** $\lambda_c \pm 20$ nm, all temperature, all polarization state.

1. IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.
2. The Optical Power is 1W only for connector added.

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MECHANICAL DIMENSIONS

A Package



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Operating Wavelength	Grade	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector	Working axis
PMH1IS=Single stage, 1W	31=1310nm	P=P grade	A=A package	M=PM1310	1=Bare fiber	07=0.75m	0= None	0= None	S=Slow axis working
.	55=1550nm	A=A grade		N=PM1550	2=900um loose tube	10=1.0m	1= FC/APC	1= FC/APC	F=Fast axis working
.	58=1585nm			S=Custom			2= FC/PC	2= FC/PC	B=Both axes working
PMH10IS=Single stage, 10W							3= SC/APC	3= SC/APC	
PMH1IU=Dual stage, 1W							4= SC/PC	4= SC/PC	
.							5= ST	5= ST	
.							6= LC/UPC	6= LC/UPC	
PMH10IU=Dual stage, 10W							7= LC/APC	7= LC/APC	