

POLARIZATION MAINTAINING (PM) ISOLATOR (1310, 1480, 1550nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit	Single Stage	Dual Stage
Wavelength	nm	1310±20, or 1480±20, or 1550±20	
Peak Isolation (λc)	dB	42	58
Isolation ($\lambda c \pm 10, 23^\circ C$)	Min dB	30	46
Insertion Loss ($23^\circ C$)	Typ. dB	0.4	0.5
Insertion Loss ($\lambda c \pm 20, -5 \sim +70^\circ C$)	Max dB	0.6	0.7
Return Loss (Input/Output)	Min dB	55/50	55/50
Extinction Ratio (Both axes/Slow axis only)	Min dB	20/25	20/25
Optical Power Handling	mW	300	
Package Dimension	mm	$\Phi 5.5 \times L35$	
Operation Temperature	$^\circ C$	-5 to 70	
Storage Temperature	$^\circ C$	-40 to 85	

* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & ER.

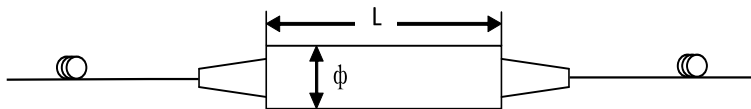
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PMIS	Stages	Wavelength	Working Axis	Fiber Type	Fiber Length	Connector
PMIS	S=single stage	10=1064nm	B=Both axes	PMB=PM Panda, 250um	10=1.0m	NE=None
	D=dual stage	1080=1080nm	S=Slow axis only (Fast axis blocked)	PMO=PM Panda, 400um	15=1.5m	FA=FC/APC
		13=1310nm		PML= PM Panda, 900um	20=2.0m	FC=FC/PC
		14=1480nm		PM9=PM 980 Panda	30=3.0m	SA=SC/APC
		15=1550nm				SC=SC/PC
		159=1590nm		X=Others	X=Others	ST=ST/PC
		CL=C+L band				LA=LC/APC
						LC=LC/PC
		X=Others				X=Others

Package Dimensions



Contact Ascentta for all your custom design needs.

POLARIZATION MAINTAINING (PM) ISOLATOR (2000nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit	Single Stage	Dual Stage
Wavelength	nm	2000	
Isolation ($\lambda c \pm 50$, 23°C)	Min dB	16	35
Insertion Loss ($\lambda c \pm 20$, 23°C)	Max dB	1.3	1.5
Return Loss (Input/Output)	Min dB	50/50	
Extinction Ratio	Min dB	18	
Optical Power Handling	Max W	1, or 2	
Peak Power for ns Pulse	Max KW	10	
Package Dimension	mm	$\Phi 5.5 \times L35$	
Operation Temperature	°C	-5 to 70	
Storage Temperature	°C	-40 to 85	

* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & ER.

* Adding connectors limits power to 1W.

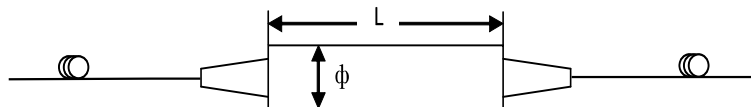
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PMIS	Stages	Wavelength	Working Axis	Fiber Type	Fiber Length	Connector	Power	Power Type
PMIS	S=single stage D=dual stage	20=2000nm X=Others	B=Both axes S=Slow axis only (Fast axis blocked)	PMB=PM 1550 Panda, 250um PMO=PM 1550 Panda, 400um PML= PM 1550 Panda, 900um X=Others	10=1.0m 15=1.5m 20=2.0m 30=3.0m X=Others	NE=None FA=FC/APC FC=FC/PC SA=SC/APC SC=SC/PC ST=ST/PC LA=LC/APC LC=LC/PC X=Others	1W=1W 2W=2W	Pulse = Pulse CW=Continuous Wave

Package Dimensions



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POLARIZATION MAINTAINING (PM) ISOLATOR (C+L, 1590nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit	Single Stage	Dual Stage
Wavelength	nm	1570±50	
Peak Isolation (λ_c)	dB	32	50
Isolation (23°C)	Min dB	18	40
Insertion Loss (23°C)	Typ. dB	0.5	0.6
Insertion Loss (-5~+70°C)	Max dB	0.7	0.8
Return Loss (Input/Output)	Min dB	55/50	55/50
Extinction Ratio	Min dB	20	20
Optical Power Handling	mW	300	
Package Dimension	mm	Φ5.5 x L35	
Operation Temperature	°C	-5to 70	
Storage Temperature	°C	-40 to 85	

* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & ER.

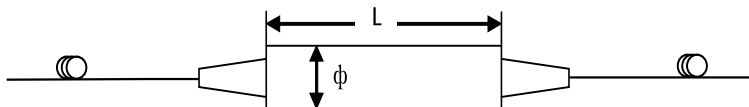
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PMIS	Stages	Wavelength	Working Axis	Fiber Type	Fiber Length	Connector
PMIS	S=single stage	10=1064nm	B=Both axes	PMB=PM Panda, 250um	10=1.0m	NE=None
	D=dual stage	1080=1080nm	S=Slow axis only (Fast axis blocked)	PMO=PM Panda, 400um	15=1.5m	FA=FC/APC
		13=1310nm		PML= PM Panda, 900um	20=2.0m	FC=FC/PC
		14=1480nm		PM9=PM 980 Panda	30=3.0m	SA=SC/APC
		15=1550nm				SC=SC/PC
		159=1590nm		X=Others	X=Others	ST=ST/PC
		CL=C+L band				LA=LC/APC
		X=Others				LC=LC/PC
						X=Others

Package Dimensions



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POLARIZATION MAINTAINING (PM) ISOLATOR (1080nm)

Specifications

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Parameter	Unit	Single Stage	Dual Stage
Wavelength	nm	1080	
Peak Isolation (λ_c)	dB	35	52
Isolation (λ_c , 23°C)	Min dB	32	42
Insertion Loss (23°C)	Typ. dB	1.5	2.4
Insertion Loss (λ_c , -5~50C)	Max dB	2.0	3.4
Return Loss (Input/Output)	Min dB	50/50	50/50
Extinction Ratio	Min dB	20	20
Optical Power Handling	mW	300	
Fiber Type	-	PM 980 Panda or Specify	
Package Dimension	mm	$\Phi 5.5 \times L35$	
Operation Temperature	°C	-5 to 50	
Storage Temperature	°C	-40 to 85	

* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & ER.

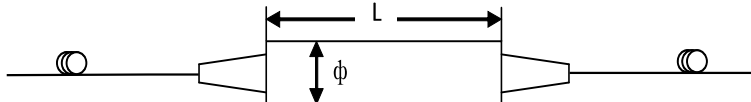
* Connector key is aligned to slow axis.

Ordering Information

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PMIS	Stages	Wavelength	Working Axis	Fiber Type	Fiber Length	Connector
PMIS	S=single stage	10=1064nm	B=Both axes	PMB=PM Panda, 250um	10=1.0m	NE=None
	D=dual stage	1080=1080nm	S=Slow axis only (Fast axis blocked)	PMO=PM Panda, 400um	15=1.5m	FA=FC/APC
		13=1310nm		PML= PM Panda, 900um	20=2.0m	FC=FC/PC
		14=1480nm		PM9=PM 980 Panda	30=3.0m	SA=SC/APC
		15=1550nm				SC=SC/PC
		159=1590nm		X=Others	X=Others	ST=ST/PC
		CL=C+L band				LA=LC/APC
		X=Others				LC=LC/PC
						X=Others

Package Dimensions



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POLARIZATION MAINTAINING (PM) ISOLATOR (1064nm)

Specifications

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Parameter		Unit	Single Stage	Dual Stage
Wavelength		nm	1064	
Peak Isolation (λ_c)		dB	38	55
Isolation (λ_c , 23°C)	Min	dB	35	45
	Typ.	dB	1.5	2.4
Insertion Loss (23°C)	Max	dB	2.0	3.4
	Min	dB	55/50	55/50
Return Loss (Input/Output)		dB	55/50	55/50
Extinction Ratio		dB	20	20
Optical Power Handling		mW	300	
Fiber Type		-	PM 980 Panda	
Package Dimension		mm	Φ5.5 x L35	
Operation Temperature		°C	-5 to 50	
Storage Temperature		°C	-40 to 85	

* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & ER.

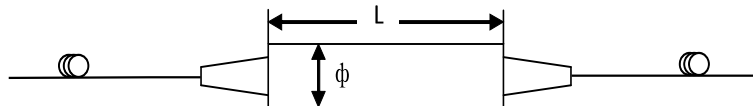
* Connector key is aligned to slow axis.

Ordering Information

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PMIS	Stages	Wavelength	Working Axis	Fiber Type	Fiber Length	Connector
PMIS	S=single stage	10=1064nm	B=Both axes	PMB=PM Panda, 250um	10=1.0m	NE=None
	D=dual stage	1080=1080nm	S=Slow axis only (Fast axis blocked)	PMO=PM Panda, 400um	15=1.5m	FA=FC/APC
		13=1310nm		PML= PM Panda, 900um	20=2.0m	FC=FC/PC
		14=1480nm		PM9=PM 980 Panda	30=3.0m	SA=SC/APC
		15=1550nm				SC=SC/PC
		159=1590nm		X=Others	X=Others	ST=ST/PC
		CL=C+L band				LA=LC/APC
		X=Others				LC=LC/PC
						X=Others

Package Dimensions



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