

POLARIZATION MAINTAINING (PM) 3-PORT OPTICAL CIRCULATOR (1310, 1480, 1550, or 1590nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit	Single-Stage	Dual-Stage
Wavelength	nm	1310, or 1480, or 1550, or 1590	
Bandwidth	nm	±20	±30
Transmitting Direction	-	1→2, 2→3	
Isolation (23°C) (2→1, or 3→2)	Peak	40	52
	Min	20	40
Insertion Loss (23°C) (1→2, or 2→3)	Typ.	0.6	0.7
	Max	0.8	0.9
Extinction Ratio	Min	20	22
Return Loss	Min	50	
Directivity (1→3, or 3→1)	Min	50	
Optical Power Handling	Max	300	
Package Dimension	mm	Φ5.5 x L35	
Operating 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.

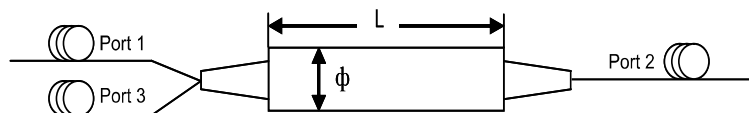
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PM CIR	Port	Stages	Wavelength	Fiber Type	Fiber Length	Connector
PM CIR	3=3-Port	S=Single	10=1064nm	PMB=PM Panda 250um	10=1.0m	NE=None
	4=4-Port	D=Dual	13=1310nm	PMO=PM Panda 400um	15=1.5m	FA=FC/APC
	5=5-Port		14=1480nm	PML= PM Panda 900um	20=2.0m	FC=FC/PC
	6=6-Port		15=1550nm		30=3.0m	SA=SC/APC
	7=7-Port		159=1590nm	X=Others	X=Others	SC=SC/PC
	8=8-Port		CL=C+L Band			ST=ST/PC
			1625=1625nm			LA=LC/APC
			X=Others			LC=LC/PC
						X=Others

Package Dimensions



Contact Ascentta for all your custom design needs.

POLARIZATION MAINTAINING (PM) 3-PORT OPTICAL CIRCULATOR (2000nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit		Value
Wavelength	nm		2000±30
Transmitting Direction	-		1→2, 2→3
Isolation (23°C) (2→1, or 3→2)	Min	dB	16
Insertion Loss (23°C) (1→2, or 2→3)	Max	dB	1.5
Extinction Ratio	Min	dB	18
Return Loss	Min	dB	50
Directivity (1→3, or 3→1)	Min	dB	40
Optical Power Handling	Max	W	1, or 2, or 5
Peak Power for ns Pulse	Max	KW	10
Package Dimension	mm		39L x 17W x 12T
Operating 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.

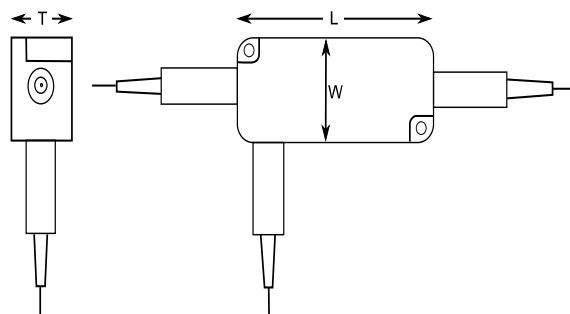
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PM CIR	Port	Wavelength	Working Axis	Fiber Type	Fiber Length	Connector	Power	Power Type
PM CIR	3=3-Port	20=2000nm	B=Both Axis S=Slow Axis Only (Fast Blocked)	PMB=PM 1550 Panda, 250um	10=1.0m 15=1.5m	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 5W=5W	Pulse=Pulse CW=Continuous Wave
		X=Others		PMO=PM 1550 Panda, 400um	20=2.0m 30=3.0m		X=Others	
				PML= PM 1550 Panda, 900um	X=Others			
				X=Others				

Package Dimensions



Contact Ascentta for all your custom design needs.

POLARIZATION MAINTAINING (PM) 3-PORT OPTICAL CIRCULATOR (C+L BAND)

Specifications

Contact Ascentta with your custom specification needs.

Parameter		Unit	Single-Stage	Dual Stage
Wavelength		nm	1520-1610	
Transmitting Direction		-	1→2, 2→3	
Isolation (23°C) (2→1, or 3→2)	Peak	dB	40	52
	Min	dB	18	35
Insertion Loss (23°C) (1→2, or 2→3)	Typ.	dB	1.1	0.9
	Max	dB	1.0	1.1
Extinction Ratio	Min	dB	20	22
Return Loss	Min	dB	50	
Directivity (1→3, or 3→1)	Min	dB	50	
Optical Power Handling	Max	mW	300	
Package Dimension		mm	Φ5.5 x L35	
Operating 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.

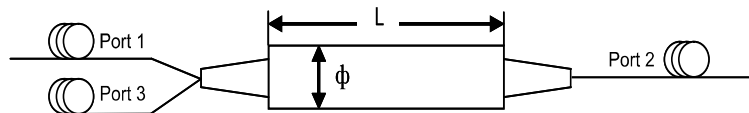
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PM CIR	Port	Stages	Wavelength	Fiber Type	Fiber Length	Connector
PM CIR	3=3-Port	S=Single	10=1064nm	PMB=PM Panda 250um	10=1.0m	NE=None
	4=4-Port	D=Dual	13=1310nm	PMO=PM Panda 400um	15=1.5m	FA=FC/APC
	5=5-Port		14=1480nm	PML= PM Panda 900um	20=2.0m	FC=FC/PC
	6=6-Port		15=1550nm		30=3.0m	SA=SC/APC
	7=7-Port		159=1590nm	X=Others		SC=SC/PC
	8=8-Port		CL=C+L Band			ST=ST/PC
			1625=1625nm		X=Others	LA=LC/APC
		X=Others			LC=LC/PC	X=Others

Package Dimensions



Contact Ascentta for all your custom design needs.

POLARIZATION MAINTAINING (PM) 3-PORT OPTICAL CIRCULATOR (1064nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit	Single-Stage	Dual-Stage
Wavelength	nm	1064	
Transmitting Direction	-	1→2, 2→3	
Isolation (23°C) (2→1, or 3→2)	Typ.	30	52
	Min	25	45
Insertion Loss (23°C) (1→2, or 2→3)	Typ.	1.8	3.4
	Max	2.1	4.0
Extinction Ratio	Min	20	
Return Loss	Min	50	
Directivity (1→3, or 3→1)	Min	50	
Optical Power Handling	Max	300	
Fiber Type	-	PM 980 Panda	
Package Dimension	mm	Φ5.5 x L35	
Operating 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.

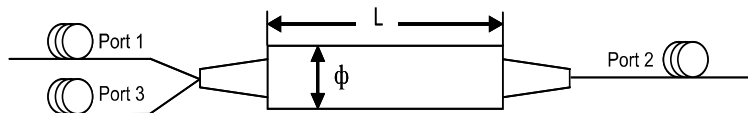
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PM CIR	Port	Stages	Wavelength	Fiber Type	Fiber Length	Connector
PM CIR	3=3-Port	S=Single	10=1064nm	PMB=PM Panda 250um	10=1.0m	NE=None
	4=4-Port	D=Dual	13=1310nm	PMO=PM Panda 400um	15=1.5m	FA=FC/APC
	5=5-Port		14=1480nm	PML= PM Panda 900um	20=2.0m	FC=FC/PC
	6=6-Port		15=1550nm		30=3.0m	SA=SC/APC
	7=7-Port		159=1590nm	X=Others	X=Others	SC=SC/PC
	8=8-Port		CL=C+L Band			ST=ST/PC
			1625=1625nm			LA=LC/APC
			X=Others			LC=LC/PC
						X=Others

Package Dimensions



Contact Ascentta for all your custom design needs.

POLARIZATION MAINTAINING (PM) 4-PORT OPTICAL CIRCULATOR (1310, 1480, 1550, or 1590nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter	Unit	Single-Stage	Dual-Stage
Wavelength	nm	1310, or 1480, or 1550, or 1590	
Bandwidth	nm	±20	±30
Transmitting Direction	-	1→2, 2→3, 3→4	
Isolation (23°C) (4→3, or 3→2, or 2→1)	Peak	dB	40
	Min	dB	22
Insertion Loss (23°C) (1→2, or 2→3, or 3→4)	Typ.	dB	0.7
	Max	dB	1.0
Extinction Ratio	Min	dB	20
Return Loss	Min	dB	55
Directivity (1→4, or 1→3, or 2→4, or 3→1, or 4→2, or 4→1)	Min	dB	50
Optical Power Handling	Max	mW	300
Package Dimension	mm	Φ5.5 x L35	
Operating 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.

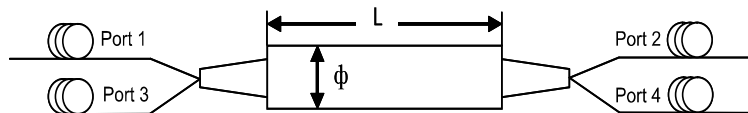
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PM CIR	Port	Stages	Wavelength	Fiber Type	Fiber Length	Connector
PM CIR	3=3-Port	S=Single	10=1064nm	PMB=PM Panda 250um	10=1.0m	NE=None
	4=4-Port	D=Dual	13=1310nm	PMO=PM Panda 400um	15=1.5m	FA=FC/APC
	5=5-Port		14=1480nm	PML= PM Panda 900um	20=2.0m	FC=FC/PC
	6=6-Port		15=1550nm		30=3.0m	SA=SC/APC
	7=7-Port		159=1590nm	X=Others	X=Others	SC=SC/PC
	8=8-Port		CL=C+L Band			ST=ST/PC
			1625=1625nm			LA=LC/APC
			X=Others			LC=LC/PC
						X=Others

Package Dimensions



Contact Ascentta for all your custom design needs.

POLARIZATION MAINTAINING (PM) N-PORT OPTICAL CIRCULATOR (1310, 1480, 1550, or 1590nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter		Unit	Single-Stage	Dual-Stage
Wavelength		nm	1310, or 1480, or 1550, or 1590	
Bandwidth		nm	±20	±30
Transmitting Direction		-	1→2, 2→3, ... N-1→N	
Isolation (23°C) (2→1, or 3→2, ... N→N-1)	Peak	dB	40	52
	Min	dB	20	40
Insertion Loss (23°C) (1→2, or 2→3, ... N-1→N)	Typ.	dB	0.6	0.7
	Max	dB	0.8	0.9
Extinction Ratio	Min	dB	20	22
Return Loss	Min	dB	55	
Directivity (a & b not consecutive: a→b, or b→a)	Min	dB	50	
Optical Power Handling	Max	mW	300	
Package Dimension		mm	75 x 32 x 10	
Operating 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.

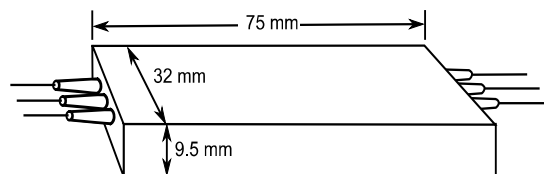
* Connector key is aligned to slow axis.

Ordering Information

Contact Ascentta with your custom configuration needs.

PM CIR	Port	Stages	Wavelength	Fiber Type	Fiber Length	Connector
PM CIR	3=3-Port 4=4-Port 5=5-Port 6=6-Port 7=7-Port 8=8-Port	S=Single D=Dual	10=1064nm 13=1310nm 14=1480nm 15=1550nm 159=1590nm CL=C+L Band 1625=1625nm X=Others	PMB=PM Panda 250um PMO=PM Panda 400um PML= PM 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

Package Dimensions



Package shown with 6 ports.

Contact Ascentta for all your custom design needs.