

## SINGLE-MODE DUAL-WINDOW COUPLER: WIDE-BAND (1310/1550nm)

### Specifications

Contact Ascentta with your custom specification needs.

Parameter		Unit	Value
Wavelength		nm	1310, and 1550
Bandwidth		nm	±40
Excess Loss		Typ. dB	0.07
Insertion Loss (23°C, All SOP)	50/50	Max dB	3.6
	40/60	Max dB	4.7/2.7
	30/70	Max dB	6.0/1.9
	20/80	Max dB	7.9/1.3
	10/90	Max dB	11.2/0.75
	5/95	Max dB	14.6/0.4
	2/98	Max dB	18.8/0.3
1/99	Max dB	22.5/0.25	
PDL		Max dB	0.15
Directivity		Min dB	55
Optical Power Handling		Max mW	300
Operating Temperature		°C	-40 to 85
Storage Temperature		°C	-40 to 85

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

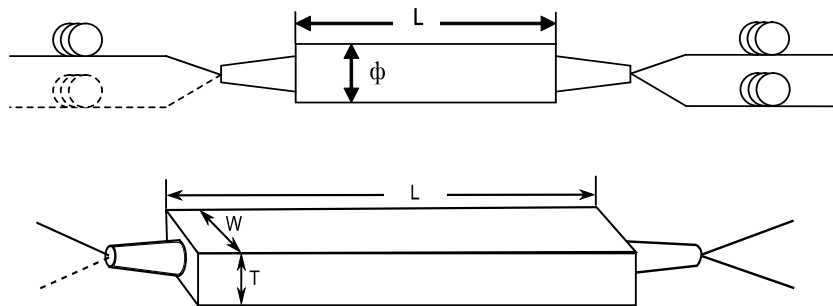
\* SOP=State Of Polarization

### Packaging

Contact Ascentta with your custom configuration needs.

Parameter		250µm bare fiber	900µm loose tube	900µm/3mm loose tube
Configuration		1x2 or 2x2		
Dimension	mm	Φ3.0 x L40 Φ3.0 x L54	Φ3.0 x L54 Φ3.0 x L56	L90 × W20 × T10

### Package Diagram



Contact Ascentta for all your custom design needs.

**SINGLE-MODE DUAL-WINDOW COUPLER: WIDE-BAND**  
(1310/1550nm)

**Ordering Information**

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CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Cable Type	Fiber Length	Connector
CP	D=Dual-Window X: Others	35=1310/1550	50=50/50 20=20/80 10=10/90 05=05/95 02=02/98 01=01/99 X=Others	12=1x2 22=2x2 X= Others	A40=φ3.0 x L40 A54=φ3.0 x L54 A56=φ3.0 x L56 C10=L90xW20xT10 X=Others	S=SMF-28 X= Others	B=250um L=900um W=2mm H=3mm	05=0.5m 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

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**SINGLE-MODE DUAL-WINDOW COUPLER: MONOLITHIC 1x3, 3X3  
(1310/1550nm)**

**Specifications**

Contact Ascentta with your custom specification needs.

Parameter		Unit	1x3	3x3
Wavelength		nm	1310, and 1550	
Bandwidth		nm	±40	
Excess Loss	Typ.	dB	0.1	
Insertion Loss (23°C, All SOP)		Max	5.8	
PDL		Max	0.25	
Uniformity	Max	dB	1.2	1.3
Directivity		Min	55	
Optical Power Handling		Max	300	
Operating Temperature		°C	-40 to 85	
Storage Temperature		°C	-40 to 85	

- \* The above specifications are for parts without connectors. Adding connectors can affect the IL, & PDL.
- \* SOP=State Of Polarization

**Ordering Information**

Contact Ascentta with your custom configuration needs.

CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Cable Type	Fiber Length	Connector
CP	D=Dual-Window X: Others	35=1310/1550	33=33%	13=1x3 33=3x3	Contact Ascentta with your packaging needs.	S=SMF-28	B=250um L=900um W=2mm H=3mm	05=0.5m	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	X=Others	X= Others		X= Others		X=Others	
									X=Others

Contact Ascentta for all your custom design needs.

**SINGLE-MODE DUAL-WINDOW COUPLER: MONOLITIC 1x4**  
(1310/1550nm)

**Specifications**

Contact Ascentta with your custom specification needs.

Parameter		Unit	Value
Wavelength		nm	1310, and 1550
Bandwidth		nm	±40
Excess Loss	Typ.	dB	0.3
Insertion Loss (23°C, All SOP)		Max	dB
			7.2
PDL		Max	dB
			0.25
Uniformity		Max	dB
			1.4
Directivity		Min	dB
			55
Optical Power Handling		Max	mW
			300
Operating Temperature		°C	-40 to 85
Storage Temperature		°C	-40 to 85

- \* The above specifications are for parts without connectors. Adding connectors can affect the IL, & PDL.
- \* SOP=State Of Polarization

**Ordering Information**

Contact Ascentta with your custom configuration needs.

CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Cable Type	Fiber Length	Connector
CP	D=Dual-Window	35=1310/1550  X: Others	25=25%  X=Others	14=1x4  X= Others	Contact Ascentta with your packaging needs.	S=SMF-28  X= Others	B=250um L=900um W=2mm H=3mm	05=0.5m 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

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**SINGLE-MODE DUAL-WINDOW COUPLER: TREE AND STAR MODULE**  
(1310/1550nm)

**Specifications**

Contact Ascentta with your custom specification needs.

Parameter		Unit	Type Nx4	Type Nx8	Type Nx16	Type Nx32
			N=1, 2	N=1,2	N=1, 2	N=1, 2
Wavelength		nm	1310, and 1550			
Bandwidth		nm	±40			
Excess Loss	Typ.	dB	0.3	0.45	0.6	0.75
Insertion Loss (23°C, All SOP)	Max	dB	7.2	10.8	14.4	18
PDL	Max	dB	0.3	0.4	0.5	0.6
Directivity	Min	dB	55			
Optical Power Handling	Max	mW	300			
Operating Temperature		°C	-20 ~ +70			
Storage Temperature		°C	-40 ~ +85			

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

\* SOP=State Of Polarization

**Ordering Information**

Contact Ascentta with your custom configuration needs.

CP	Type	Wavelength	Coupler Ratio	Port	Package	Fiber Type	Cable Type	Fiber Length	Connector
CP	D=Dual-Window	35=1310/1550	25=24%	14=1x4 24=2x4	Contact Ascentta with your packaging needs.	S=SMF-28	B=250um L=900um W=2mm H=3mm	05=0.5m 10=1.0m	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	X=Others	18=1x8 28=2x8		X= Others		15=1.5m 20=2.0m 30=3.0m X=Others	
									X=Others

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