

## SINGLE MODE SINGLE WINDOW STANDARD COUPLER

### Specifications

Parameter		Unit	Value
Operating Wavelength		nm	1310 or 1550 or others
Operating Bandwidth		nm	±15
Typical Excess Loss		dB	0.07
Insertion Loss	50/50	dB	≤3.4
	40/60	dB	≤4.4/2.6
	30/70	dB	≤5.7/1.9
	20/80	dB	≤7.6/1.2
	10/90	dB	≤11.0/0.65
	5/95	dB	≤14.2/0.4
	2/98	dB	≤18.5/0.25
	1/99	dB	≤21.5/0.2
PDL		dB	≤0.1
Directivity		dB	≥55
Operating Temperature		°C	-40 ~ +85

### Package Information

Configuration	1x2 or 2x2		
Fiber Lead Length	1 meter, others on request		
Fiber Type	250μm bare fiber	900μm loose tube	900μm/3mm loose tube
Dimension (mm)	φ3.0 x L56	φ3.0 x L56	90 x 16 x 9
	φ3.0 x L40	90 x 16 x 9	106 × 79 × 10

### Package Dimensions for Ordering Information

A30: φ3.0mm x L30mm A35: φ3.0mm x L35mm A40: φ3.0mm x L40mm A56: φ3.0mm x L56mm A90: φ3.0mm x L90mm	F30: φ3.5mm x L30mm F35: φ3.5mm x L35mm F35: φ3.5mm x L40mm F35: φ3.5mm x L54mm
G18: φ2.4mm x L18mm G25: φ2.4mm x L25mm G30: φ2.4mm x L30mm	K40: φ4.0mm x L40mm K45: φ4.0mm x L45mm K54: φ4.0mm x L54mm K75: φ4.0mm x L75



C1: 90mm x 16mm x 9mm  
 C2: 106mm x 79mm x 10mm  
 C3: 125mm x 96mm x 15mm  
 C4: 145mm x 116mm x 18mm

C5: 130mm x 127mm x 30mm  
 C6: 130mm x 127mm x 59mm  
 C7: 483mm x 440mm x 44mm

**Ordering Information**

CP	Type	Wavelength	Coupler Ratio	Port	Pack-age	Fiber Type	Cable Type	Fiber Length	Connector
CP	S=Standard	85=850	50=50/50	12=1x2	A40	S=SMF-28 fiber	B=250um	10=1.0m	NE=None
	W=Wide-Band	98=980	01=01/99	22=2x2	.	.	.	15=1.5m	FA=FC/APC
	D=Dual-Window	10=1060	XX=others	13=1x3	A56	M5=50u MM fiber	L=900um	20=2.0m	FC=FC/PC
	T=Tri-Window	13=1310		14=1x4	.	M6=62.5u MM fiber	H=3mm	XX=Others	SA=SC/APC
	SC=Mode Scrambler	15=1550		XX=	F30	H1=1060 Flexcore			SC=SC/PC
		35=1310/1550		Others	F35	PM=PM Panda fiber			LC=LC/PC
		CL=C+L			.				XX=Others
		XX: Others			G18				
					G25				
					.	X= Other			
					K40				
					K45				
					K54				
					.				
					C1				
				C2					
				.					
				XX					

## SINGLE MODE SINGLE WINDOW WIDE BAND COUPLER

### Specifications

Parameter		Unit	Value
Operating Wavelength		nm	1310 or 1550, others on request
Operating Bandwidth		nm	±40
Typical Excess Loss		dB	0.07
	50/50	dB	≤3.4
Insertion Loss	40/60	dB	≤4.4/2.6
	30/70	dB	≤5.7/1.9
	20/80	dB	≤7.6/1.2
	10/90	dB	≤11.0/0.65
	5/95	dB	≤14.2/0.4
	2/98	dB	≤18.5/0.25
	1/99	dB	≤21.5/0.2
PDL		dB	≤0.1
Directivity		dB	≥55
Operating Temperature		°C	-40 ~ +85

### Package Information

Configuration	1x2 or 2x2		
Fiber Lead Length	1 meter, others on request		
Fiber Type	250μm bare fiber	900μm loose tube	900μm/3mm loose tube
Dimension (mm)	φ3.0 x L56	φ3.0 x L56	90 x 16 x 9
	φ3.0 x L40	90 x 16 x 9	106 × 79 × 10

### Package Dimensions for Ordering Information

A30: φ3.0mm x L30mm A35: φ3.0mm x L35mm A40: φ3.0mm x L40mm A56: φ3.0mm x L56mm A90: φ3.0mm x L90mm	F30: φ3.5mm x L30mm F35: φ3.5mm x L35mm F35: φ3.5mm x L40mm F35: φ3.5mm x L54mm
G18: φ2.4mm x L18mm G25: φ2.4mm x L25mm G30: φ2.4mm x L30mm	K40: φ4.0mm x L40mm K45: φ4.0mm x L45mm K54: φ4.0mm x L54mm K75: φ4.0mm x L75



C1: 90mm x 16mm x 9mm  
 C2: 106mm x 79mm x 10mm  
 C3: 125mm x 96mm x 15mm  
 C4: 145mm x 116mm x 18mm

C5: 130mm x 127mm x 30mm  
 C6: 130mm x 127mm x 59mm  
 C7: 483mm x 440mm x 44mm

**Ordering Information**

CP	Type	Wavelength	Coupler Ratio	Port	Pack-age	Fiber Type	Cable Type	Fiber Length	Connector
CP	S=Standard	85=850	50=50/50	12=1x2	A40	S=SMF-28 fiber	B=250um	10=1.0m	NE=None
	W=Wide-Band	98=980	01=01/99	22=2x2	.	.	.	15=1.5m	FA=FC/APC
	D=Dual-Window	10=1060	XX=others	13=1x3	A56	M5=50u MM fiber	L=900um	20=2.0m	FC=FC/PC
	T=Tri-Window	13=1310		14=1x4	.	M6=62.5u MM fiber	H=3mm	XX=Others	SA=SC/APC
	SC=Mode Scrambler	15=1550		XX=	F30	H1=1060 Flexcore			C
		35=1310/1550		Others	F35	PM=PM Panda fiber			SC=SC/PC
		CL=C+L			.				LC=LC/PC
		XX: Others			G18				XX=Others
					G25				
					.	X= Other			
					K40				
					K45				
					K54				
					.				
					C1				
				C2					
				.					
				XX					

## 1X3 (3X3) MONOLITHIC SINGLE MODE SINGLE WINDOW WIDE BAND COUPLER

### Specifications

Parameter	Unit	Type 1x3	Type 3x3
Operating Wavelength	nm	1310 or 1550, others on request	
Operating Bandwidth	nm	±15	
Typical Excess Loss	dB	0.1	0.2
Insertion Loss	dB	≤5.4	≤6.0
PDL	dB	≤0.1	≤0.15
Uniformity	dB	≤0.8	≤1.2
Directivity	dB	≥55	
Operating Temperature	°C	-40 ~ +85	

### Package Information

Configuration	1x3 (3x3)
Fiber Lead Length	1 meter, others on request
Fiber Type	250μm bare fiber
Dimension (mm)	φ3.5 x L54 or φ3.5 x L40

### Package Dimensions for Ordering Information

A30: φ3.0mm x L30mm A35: φ3.0mm x L35mm A40: φ3.0mm x L40mm A56: φ3.0mm x L56mm A90: φ3.0mm x L90mm	F30: φ3.5mm x L30mm F35: φ3.5mm x L35mm F35: φ3.5mm x L40mm F35: φ3.5mm x L54mm
G18: φ2.4mm x L18mm G25: φ2.4mm x L25mm G30: φ2.4mm x L30mm	K40: φ4.0mm x L40mm K45: φ4.0mm x L45mm K54: φ4.0mm x L54mm K75: φ4.0mm x L75
C1: 90mm x 16mm x 9mm C2: 106mm x 79mm x 10mm C3: 125mm x 96mm x 15mm C4: 145mm x 116mm x 18mm	C5: 130mm x 127mm x 30mm C6: 130mm x 127mm x 59mm C7: 483mm x 440mm x 44mm

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**Ordering Information**

CP	Type	Wavelength	Coupler Ratio	Port	Pack- age	Fiber Type	Cable Type	Fiber Length	Connector
CP	S=Standard	85=850	50=50/50	12=1x2	A40	S=SMF-28	B=250um	10=1.0m	NE=None
	W=Wide-Band	98=980	01=01/99	22=2x2	.	fiber		15=1.5m	FA=FC/APC
	D=Dual-Window	10=1060	XX=others	13=1x3	A56	M5=50u	L=900um	20=2.0m	FC=FC/PC
	T=Tri-Window	13=1310		14=1x4	.	MM fiber			SA=SC/AP
	SC=Mode Scrambler	15=1550		XX=	F30	M6=62.5u	H=3mm	XX=Others	C
		35=1310/1550		Others	F35	MM fiber			SC=SC/PC
		CL=C+L			.	H1=1060			LC=LC/PC
		XX: Others			G18	Flexcore			XX=Others
					G25	PM=PM			
					.	Panda fiber			
					.	X= Other			
					K40				
					K45				
					K54				
					.				
				C1					
				C2					
				.					
				XX					

## 1X4 MONOLITHIC SINGLE WINDOW SINGLE MODE COUPLER

### Specifications

Parameter	Unit	Value
Operating Wavelength	nm	1310 or 1550, others on request
Operating Bandwidth	nm	±15
Typical Excess Loss	dB	0.15
Insertion Loss	dB	≤7.0
PDL	dB	≤0.15
Uniformity	dB	≤1.0
Directivity	dB	≥55
Operating Temperature	°C	-40 ~ +85

### Package Information

Configuration	1x4
Fiber Lead Length	1 meter, others on request
Fiber Type	250μm bare fiber
Dimension (mm)	Φ4.0 x 54
	φ4.0 x 40
	φ4.0 x 45

### Package Dimensions for Ordering Information

A30: φ3.0mm x L30mm A35: φ3.0mm x L35mm A40: φ3.0mm x L40mm A56: φ3.0mm x L56mm A90: φ3.0mm x L90mm	F30: φ3.5mm x L30mm F35: φ3.5mm x L35mm F35: φ3.5mm x L40mm F35: φ3.5mm x L54mm
G18: φ2.4mm x L18mm G25: φ2.4mm x L25mm G30: φ2.4mm x L30mm	K40: Φ4.0mm x L40mm K45: Φ4.0mm x L45mm K54: Φ4.0mm x L54mm K75: φ4.0mm x L75
C1: 90mm x 16mm x 9mm C2: 106mm x 79mm x 10mm C3: 125mm x 96mm x 15mm C4: 145mm x 116mm x 18mm	C5: 130mm x 127mm x 30mm C6: 130mm x 127mm x 59mm C7: 483mm x 440mm x 44mm

**Ordering Information**

CP	Type	Wavelength	Coupler Ratio	Port	Pack- age	Fiber Type	Cable Type	Fiber Length	Connector
CP	S=Standard	85=850	50=50/50	12=1x2	A40	S=SMF-28	B=250um	10=1.0m	NE=None
	W=Wide-Band	98=980	01=01/99	22=2x2	.	fiber		15=1.5m	FA=FC/APC
	D=Dual-Window	10=1060	XX=others	13=1x3	A56	M5=50u	L=900um	20=2.0m	FC=FC/PC
	T=Tri-Window	13=1310		14=1x4	.	MM fiber			SA=SC/AP
	SC=Mode Scrambler	15=1550		XX=	F30	M6=62.5u	H=3mm	XX=Others	C
		35=1310/1550		Others	F35	MM fiber			SC=SC/PC
		CL=C+L			.	H1=1060			LC=LC/PC
		XX: Others			G18	Flexcore			XX=Others
					G25	PM=PM			
					.	Panda fiber			
					.	X= Other			
					K40				
					K45				
					K54				
					.				
				C1					
				C2					
				.					
				XX					

## TREE AND STAR SINGLE WINDOW STANDARD COUPLER MODULE

### Specifications

Parameter	Unit	Type Nx4 N=1, 2, 4	Type Nx8 N=1,2,8	Type Nx16 N=1, 2	Type Nx32 N=1, 2
Operating Wavelength	nm	1310 or 1550, others on request			
Operating Bandwidth	nm	±15			
Insertion Loss	dB	≤6.9	≤10.4	≤13.8	≤17.4
Typical Excess Loss	dB	0.25	0.4	0.55	0.7
PDL	dB	≤0.2	≤0.3	≤0.4	≤0.5
Directivity	dB	≥55			
Operating Temperature	°C	-40 ~ +85			

### Package information

Fiber Lead Length	1 meter, others on request			
Fiber Type	900μm, 2mm, 3mm loose tube			
Dimension (mm)	106 x 79 x 10	125 x 96 x 15	145x116x18	145 x 116 x 18
	LGX (1x4) 130 × 127 × 30	LGX (1x8) 130 × 127 × 59	19 Inch Rack (1x8, 1x16, 1x32) 483 × 440 × 44	

### Package Dimensions for Ordering Information

A30: φ3.0mm x L30mm A35: φ3.0mm x L35mm A40: φ3.0mm x L40mm A56: φ3.0mm x L56mm A90: φ3.0mm x L90mm	F30: φ3.5mm x L30mm F35: φ3.5mm x L35mm F35: φ3.5mm x L40mm F35: φ3.5mm x L54mm
G18: φ2.4mm x L18mm G25: φ2.4mm x L25mm G30: φ2.4mm x L30mm	K40: Φ4.0mm x L40mm K45: Φ4.0mm x L45mm K54: Φ4.0mm x L54mm K75: φ4.0mm x L75
C1: 90mm x 16mm x 9mm C2: 106mm × 79mm × 10mm C3: 125mm x 96mm x 15mm C4: 145mm x 116mm x 18mm	C5: 130mm × 127mm × 30mm C6: 130mm × 127mm × 59mm C7: 483mm × 440mm × 44mm

Ordering Information

CP	Type	Wavelength	Coupler Ratio	Port	Pack- age	Fiber Type	Cable Type	Fiber Length	Connector
CP	S=Standard	85=850	50=50/50	12=1x2	A40	S=SMF-28	B=250um	10=1.0m	NE=None
	W=Wide-Band	98=980	01=01/99	22=2x2	.	fiber		15=1.5m	FA=FC/APC
	D=Dual-Window	10=1060	XX=others	13=1x3	A56	M5=50u	L=900um	20=2.0m	FC=FC/PC
	T=Tri-Window	13=1310		14=1x4	.	MM fiber			SA=SC/AP
	SC=Mode Scrambler	15=1550		XX=	F30	M6=62.5u	H=3mm	XX=Others	C
		35=1310/1550		Others	F35	MM fiber			SC=SC/PC
		CL=C+L			.	H1=1060			LC=LC/PC
		XX: Others			G18	Flexcore			XX=Others
					G25	PM=PM			
					.	Panda fiber			
					K40	X= Other			
					K45				
					K54				
					.				
					C1				
					C2				
					.				
					XX				