

## SINGLE AND DUAL WINDOW COUPLER

LBFC

### FEATURES

- Low excess loss
- Low PDL
- High stability and reliability
- Various coupling ratio

### APPLICATIONS

- CATV
- Optical communication systems
- Testing instruments
- FTTH, FTTB



### SPECIFICATIONS

Parameter		P Grade	A Grade
Operating Wavelength (nm)		1310, 1550, others on request	
Operating Bandwidth (nm)		±40	
Insertions Loss (dB)	50/50	≤3.40	≤3.60
	40/60	≤4.50/ 2.60	≤4.70/ 2.70
	30/70	≤5.70/ 1.90	≤6.00/ 2.10
	20/80	≤7.60/ 1.20	≤7.90/ 1.20
	10/90	≤11.00/ 0.65	≤11.30/ 0.65
	5/95	≤14.20/ 0.40	≤14.60/ 0.40
	2/98	≤18.40/ 0.25	≤18.80/ 0.30
1/99	≤21.50/ 0.20	≤22.50/ 0.25	
PDL (dB)		≤0.10	≤0.15
Directivity (dB)		≥50	
Operating Temperature		-40°C ~ +85°C (-40°F ~ +185°F)	

\*All specifications are subject to change without prior notice  
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### PACKAGE INFORMATION

Configuration	1x2 or 2x2		
Fiber Lead Length	1 meter, others on request		
Fiber Type	250 μm bare fiber	900 μm loose tube	900 μm/ 2mm/ 3mm loose tube
Dimensions (φ×L)	φ3.0mm x 45mm	φ3.0mm x 54mm	90mm x 20mm x 10mm
	φ3.0mm x 54mm	φ3.0mm x 60mm	

FOR MORE INFORMATION ON OUR WIRELESS, OPTICAL AND RF PRODUCTS

CALL 1-800-465-7046 OR  
U.S. Sales Toll free: 877-672-4340

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## SINGLE AND DUAL WINDOW COUPLER

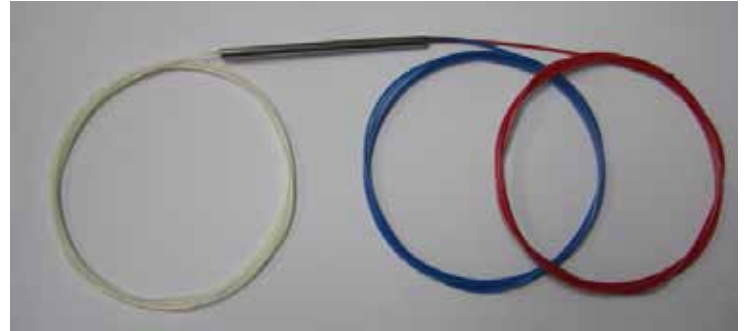
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### SPECIFICATIONS

Parameter	P Grade	A Grade	
Operating Wavelength (nm)	1310 and 1550		
Operating Bandwidth (nm)	±40		
Insertions Loss (dB)	50/50	≤3.60	≤3.80
	40/60	≤4.70/ 2.70	≤4.90/ 2.90
	30/70	≤6.00/ 1.90	≤6.30/ 2.10
	20/80	≤7.90/ 1.20	≤8.40/ 1.40
	10/90	≤11.30/ 0.65	≤12.00/ 0.80
	5/95	≤14.60/ 0.40	≤15.50/ 0.50
	2/98	≤18.80/ 0.30	≤19.50/ 0.40
	1/99	≤22.50/ 0.25	≤23.50/ 0.35
PDL (dB)	≤0.15	≤0.20	
Directivity (dB)	≥50		
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)		

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Configuration	1x2 or 2x2		
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### APPLICATIONS

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### SPECIFICATIONS

Parameter	Specification				Unit
Operating Wavelength	1310 and 1550				nm
Operating Bandwidth	±40				nm
Configuration	1 (or 2) '4	1 (or 2) '8	1 (or 2) '16	1 (or 2) '32	
Typical Insertion Loss	6.30	9.50	12.70	15.90	dB
Insertion Loss	7.00	10.60	14.10	17.70	dB
Uniformity	1.4	2.10	2.8	3.50	dB
WDL	0.80	1.20	1.60	2.00	dB
PDL	0.30	0.45	0.60	0.75	dB
Thermal Stability	0.004	0.006	0.008	0.01	dB/ °C
Directivity	50				dB
Operating Temperature	-40 ~ +85°C (-40 ~ +185°F)				°C/ °F

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### PACKAGE INFORMATION

Configuration	1x4 or 2x4	1x8 or 2x8	1x16 or 1x32
Fiber Lead Length	1 meter, others on request		
Fiber Type	900µm/ 2mm/ 3mm loose tube		
Dimensions (L x W x H)	100 x 80 x 10	100 x 80 x 10	125 x 96 x 15

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## ORDERING INFORMATION

LBFC	XXX	X	XX	X	XX	XX	XX	XXX
	Port Configuration	Module Types	Coupling Ratio	Grade	Fiber Length	Cable Type	Wave-length	Input/ Output Connector
LB= Lindsay Broadband F= Fused C= Coupler	102= 1x2 202= 2x4	A B C D E	50=50/50 40=40/60 30=30/70 25=25/75 20=20/80 10=10/90 05=5/95 01=1/99	P A	05=0.5m 10=1.0m 15=1.5m 20=2.0m	B=Bare Fiber 09= ¢ 0.9 20= ¢ 2.0 30= ¢ 3.0	83=830nm 85=850nm 98=980nm 13=1310nm 14=1480nm 15=1550nm 16=1585nm	0=None FCP=FC/PC FCA=FC/APC SCP=SC/PC SCA=SC/APC LCP=LC/PC LCA=LC/APC STA=ST/APC STU=ST/UPC X=Customized

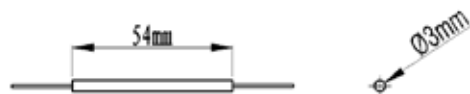
Eg. LB-102D-50P-05-20-13-SCA  
(1x2 Optical Coupler 50/50 Ratio; 1310nm wavelength, 11.6mm x 80mm x 120mm ABS package, 0.5m (50cm) pigtails with SC/APC connectors).  
Type: M -- Multimode Fiber Coupler

## PACKAGE DIMENSIONS & PIG-TAIL STYLE

Package A:  
3mm x 45mm stainless steel tube



Package B:  
3mm x 54mm stainless steel tube



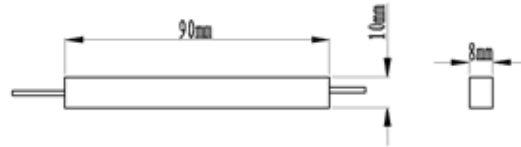
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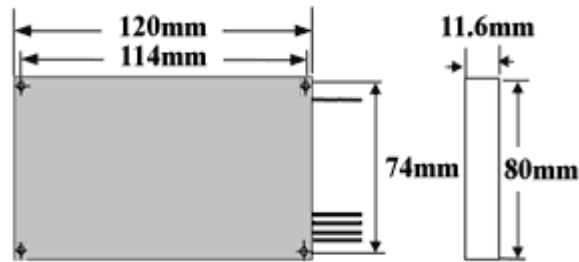
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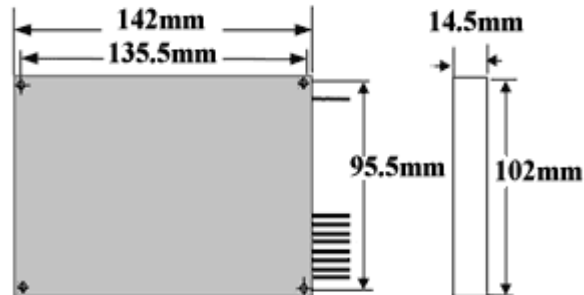
Package C:  
 8mm x 10mm x 90mm case



Package D:  
 11.6mm x 80mm x 120mm



Package E:  
 14.5mm x 102mm x 142mm



## PIGTAIL STYLE

- Package A: 250um bare fiber
- Package B: 250um bare fiber or 900um loose tube
- Package C-E: 3mm cable or 900um loose tube

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