

Special Wavelength Coupler



Accelink manufactures special couplers working at wavelength of 1480nm, 980nm, 1590nm, etc. These couplers use special single mode fiber, and the coupling ratio can be customized.

The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

Features

- Low excess loss
- Coupling ratio on customer request
- Accurate Split Ratio

Applications

- Optical instruments
- EDFA

Specifications

Parameter	Unit	Value		
Operation Wavelength	nm	980 ± 10	1480 ± 40	1590 ± 40
Split Ratio		1/99 ~ 50/50		
Fiber Type		Corning HI1060 Flex	Corning SMF-28e	
Return Loss	dB	> 50		
Directivity	dB	> 55		
PDL	dB	< 0.1		
TDL	dB	< 0.1		
Operation Temperature	°C	-10 ~ +70		
Storage Temperature	°C	-40 ~ +85		

Insertion Loss		
Split Ratio	Tap	Signal
1/99	18.2-21.0	≤0.20
3/97	14.4-16.4	≤0.30
5/95	12.2-14.0	≤0.35
10/90	9.40-11.0	≤0.60
20/80	6.30-7.80	≤1.15
30/70	4.60-5.75	≤1.75
40/60	3.85-4.40	≤2.50
50/50	2.70~3.40	

Note: Insertion loss doesn't include connector loss, PDL and TDL.

Package and Installation Dimension

	A	B	C1	C2	D	E
Package(mm)	Φ3×52 ¹	Φ3.5×55 ²	100×18×9.2	90×16×9	100×80×7.2	130×90×15
Installation(mm)			65×12×4 Φ2.4	50×9×2 Φ3.2	60×76.2×4 Φ3.0	124×84×4 Φ3.5
Box Material	SST Tube	SST Tube	Plastics	Metal	Plastics	Metal

Note: 1, Type A is only for 0.25mm fiber. 2, Type B is for 0.9mm fiber.

Ordering information

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Port	Wavelength	Couple Ratio	Fiber Dia.	Fiber Length	Connector	Package
12:1×2	098:980nm	01: 1:99	00: adapter	00: adapter	00:no connector	Selected from the dimension table A,B,.....E
22:2×2	148:1480nm	02: 2:98	(only for package E)	(only for package E)	FC,SC,LC,MU/	
	159:1590nm	50: 50:50	025:Φ0.25mm 09:Φ0.9mm 30:Φ3mm	1:1.0m customer specify	PC,UPC,APC	