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1x2 / 2x2 Single Mode Ultra-Broadband Fiber Optic Coupler/Splitter

Product Description

The FC Series fiber optic coupler is based on Agiltron's fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range



Features

- Wavelength Independent
- Low Insertion Loss
- Low PDL
- Highly Stable & Reliable
- Ultra Low Cost

Performance Specifications

FC Series		Premium	Grade A	Unit
Splitting Ratio		1/99 to 50/50		
Bandwidth		1310 ± 40 and 1450~1605		nm
Excess Loss		0.07	0.1	dB
Insertion Loss	50/50	3.8/3.6	4.0/4.0	dB
	40/60	4.8/2.7	5.1/2.9	dB
	30/70	6.2/2.0	6.6/2.2	dB
	20/80	8.0/1.3	8.5/1.5	dB
	10/90	11.5/0.6	12.9/0.8	dB
	5/95	15.6/0.4	19.2/0.5	dB
	2/98	20.0/0.3	21.5/0.4	dB
	1/99	24.0/0.3	24.6/0.4	dB
Polarization Dependent Loss		0.15	0.20	dB
Uniformity		0.8	1.2	dB
Optical Power Handling		5		W
Operating Temperature		-40~85		°C
Storage Temperature		-50~85		°C
Package Dimension *		Bare fiber: (ø)3x(L)54		mm
		900um loose tube: (ø)3x(L)70		
		900um loose tube / 2mm / 3mm		
		Cable: (L)90x(W)16x(H)9		

* Other package options available on request

Applications

- Optical communications
- FTTX
- Local Access Network (LAN)
- Fiberoptic Instrumentation

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(Click here for latest revision)

15 Presidential Way, Woburn, MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040
www.agiltron.com

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Ordering Information

FCSU-									
	Port	Wavelength	Grade	Package	Splitting Ratio	Fiber Type	Fiber Length	Connector	
	1 = 1x2 2 = 2x2	0 = 1310 & 1450-1605nm	P = P Grade A = A Grade	1 = 54(L) 2 = 70(L) 3 = 90(L) 4 = 40(L) 0 = Special	1 = 01/99 2 = 02/98 3 = 05/95 4 = 10/90 5 = 20/80 6 = 30/70 7 = 40/60 8 = 50/50 0 = Special	1 = G.652 1 = 250μm fiber 2 = 900um tube 3 = 2mm cable 4 = 3mm cable 0 = Special	1 = 0.5m 2 = 0.75m 3 = 1.0m 0 = Special	0 = None 1 = FC/PC 2 = FC/SPC 3 = FC/APC 4 = FC/UPC 5 = SC/SPC 6 = SC/APC 7 = SC/UPC 8 = ST 9 = MU A = LC/PC B = LC/APC C = LC/UPC 0 = Special	

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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