PHOTONWARES

1x2 / 2x2 Single Mode 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

Applications

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

Performance Specifications

FC Series		Premium	Grade A	Unit
Splitting Ratio		0.5/99.0 to 50/50		
Bandwidth		± 40		nm
Excess Loss		0.07	0.1	dB
Insertion Loss	50/50	3.4/3.4	3.6/3.6	dB
	40/60	4.4/2.5	4.8/2.8	dB
	30/70	5.6/1.8	6.1/2.0	dB
	20/80	7.5/1.2	8.0/1.3	dB
	10/90	10.8/0.6	12.0/0.8	dB
	5/95	14.6/0.4	18.4/0.5	dB
	4/96	16.0/0.3	19.0/0.4	dB
	3/97	17.5/0.3	19.5/0.4	dB
	2/98	19.0/0.2	20.0/0.3	dB
	1/99	21.5/0.2	22.0/0.3	dB
	0.5/99.5	23.0/0.2	24.0/0.3	dB
Polarization Dependent Loss		0.1	0.15	dB
Uniformity		0.6	1.0	dB
Optical Power Handling		5		W
Operating Temperature		-40~85		ºC
Storage Temperature		-50~85		ºC
Package Dimension *		Bare fiber: (ø)3x(L)40 / (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

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Ordering Information

FCSB-	Port	Wavelength	Grade	Package	Splitting Ratio	Fiber Type		Fiber Length	Connector
	1 = 1x2 2 = 2x2	1 = 1625nm 2 = 1590nm 3 = 1570nm 4 = 1550nm 5 = 1480nm 6 = 1475nm 7 = 1310nm P = 2000nm 0 = Special	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 9 = 0.5/99.5 A = 3/97 B = 4/96 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.