

ULTRA-COMPACT THIN FILM COUPLER

Multimode Fiber



DiCon's **Ultra-Compact, Thin Film Coupler** utilizes a thin film filter to tap off light from an optical signal, splitting it between two fiber ports.

Thin film couplers are ideal for multimode fiber applications, because they split all modes equally resulting in a stable tap ratio and are independent of mode fill condition.

- Ultra-Compact: 3.0 mm OD x 21 mm
- Stable Tap Ratio
- Epoxy Free for High Power Use

ORDERING INFORMATION

UFC - - - - BF - -

Tap Ratio

5	5/95
10	10/90
25	25/75
40	40/60
50	50/50

Test Wavelength

8	850 nm
9	980 nm
13	1310 nm
15	1550 nm
1625	1625 nm
1650	1650 nm

**Use "/" to add multiple wavelengths
(E.g., dual-band: 850/1310, 850/980 or 1310/1550;
multi-band: 1310/1550/1625)*

Fiber Type

50	50/125 μ m MMF
62	62.5/125 μ m MMF

**Other fiber options are available upon request*

Jacket Type

BF	250 μ m Bare Fiber
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Connector Type

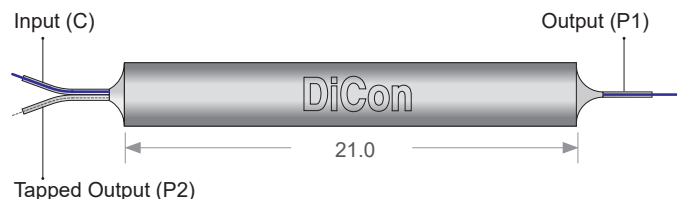
N	None
FC	FC/UPC
FC/APC	FC/APC
LC	LC/UPC
LC/APC	LC/APC
SC	SC/UPC
SC/APC	SC/APC

**Other connector types are available upon request*

Pigtail Length

1	1 Meter
X	Specify X Meter

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OPTICAL SPECIFICATIONS^{1,2}

Coupler Configuration			1x2
Insertion Loss ^{3,4}	5%	C to P1	0.8 dB max.
		C to P2	18 dB max.
	10%	C to P1	1 dB max.
		C to P2	12 dB max.
	25%	C to P1	1.8 dB max.
		C to P2	7.2 dB max.
	40%	C to P1	2.8 dB max.
		C to P2	5 dB max.
	50%	C to P1	3.6 dB max.
		C to P2	3.6 dB max.
Back Reflection	50 μm		-25 dB min.
	62.5 μm		-20 dB min.
Optical Power ⁵			500 mW max.
Fiber Type			Multimode

1. All specifications are measured separately at room temperature for each Test Wavelength
2. Multimode fiber specifications are tested with Encircled Flux-compliant light sources
3. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7)
4. IL is valid for both dual-band and Multi-band spectral ranges
5. Met by design, not measured

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-5 to 70°C, < 85% RH
Storage Temperature	-40 to 85°C, < 40% RH

MECHANICAL DRAWING

Dimensions in mm



Port Definitions

- C = Common Port
- P1 = Transmission Port
- P2 = Reflection Port

