

# 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.



### FEATURES

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

### APPLICATIONS

- Signal Splitting
- Fiber Monitoring

Ultra-Compact Thin Film Coupler



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## OPTICAL SPECIFICATIONS

Specifications without connectors at approx. 23°C.

PARAMETER		RATING	
Coupler Configuration		1x2	
Insertion Loss by Tap Ratio	5%	C to P1	0.8 dB max.
		C to P2	18.0 dB max.
	10%	C to P1	1.0 dB max.
		C to P2	12.0 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	5.0 dB max.
	50%	C to P1	3.6 dB max.
		C to P2	3.6 dB max.
Back Reflection	50/125 um Fiber	-25.0 dB max.	
	62.5/125 um Fiber	-20.0 dB max.	
Optical Power		500 mW max.	
Operating Temperature		-5 to 70 °C	
Storage Temperature		40 to 85 °C	
Fiber Type		Multimode	

## MECHANICAL SPECIFICATIONS

Dimensions in mm



## ORDERING INFORMATION

**UFC** -  -  -  -  -  -  -

### Product Code

**UFC** Ultra-Compact Thin Film Coupler

### Tap Ratio

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

### Wavelength

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

### Fiber Type

**50** 50/125 um multimode fiber  
**62** 62.5/125 um multimode fiber

### Jacket Type

**BF** 250 um, bare Fiber

### Connector Type

**FC** FC/PC  
**LC** LC/PC  
**SC** SC/PC  
**ST** ST/PC  
**N** None

### Pigtail Length

**1** 1 Meter  
**X** Specify X Meter