

# ERBIUM AMPLIFIER COMPONENTS

## FILTER TAP COUPLER

DiCon's Filter Tap Coupler is constructed using DiCon Cylindrical Filter WDM packaging technology. The component uses a thin film filter mounted between a pair of GRIN lens collimators. DiCon's Filter Tap Coupler is housed in a compact, environmentally stable package that offers superior resistance to humidity and temperature and is suitable for mounting within a line interface or amplifier gain module.



### FEATURES

- Tap Ratios from 2% to 50%
- Very low insertion loss
- Corning SMF-28 or polarization maintaining fiber types

### APPLICATIONS

Tap Couplers with Corning SMF-28 fiber are designed for power monitoring and splitting in line cards, amplifiers protections switches, and OADMs. Tap Couplers with polarization maintaining fiber are designed for power monitoring with signal or pump laser sources that use PM fiber pigtails.



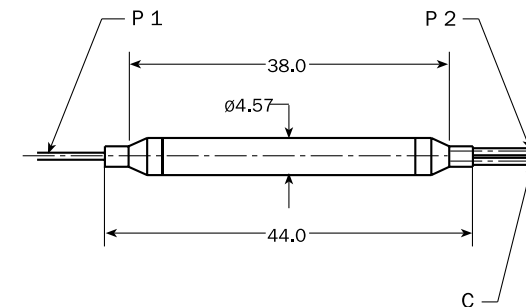
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## SPECIFICATIONS<sup>1</sup>

Insertion loss C - P1	2%	0.6 dB max.
	5%	0.8 dB max.
	10%	1.0 dB max.
	50%	3.6 dB max.
Insertion loss C - P2	2%	18 dB max.
	5%	15 dB max.
	10%	12 dB max.
	50%	3.6 dB max.
Extinction ratio <sup>2</sup>	18 dB min.	
Fast ripple	0.05 dB max.	
Directivity	55 dB min.	
Back-reflection	-50 dB max.	
PDL	0.05 dB typ., 0.1 dB max.	
Thermal stability	0.005 dB/°C max.	
Fiber type	9/125 Corning SMF-28	
Operating temperature	0°C to +65°C	
Storage temperature	-40°C to +85°C	

1. All specifications referenced without connectors.
2. For Corning PM 1300 fiber type only.

## HOUSING DIMENSIONS<sup>1</sup>



- Units: mm  
1. Optional 38 or 40 mm housing lengths by request.

## ORDERING INFORMATION

FWT - [ ] - [ ] - [ ] - [ ] - [ ]	
Tap Ratio	
2	2%
5	5%
10	10%
50	50%
Fiber Type	
2	Corning SMF-28, 250 um
9	Corning SMF-28, 900 um
PM	Corning PM 1300, 400 um
Wavelength Range	
14	1410 - 1490 nm
15	1530 - 1560 nm
16	1570 - 1610 nm
15/16	1530 - 1610 nm <sup>1</sup>
Connector Type	
FC	FC/SPC
FC/APC	FC/APC
FC/UPC	FC/UPC
SC	SC/SPC
SC/APC	SC/APC
SC/UPC	SC/UPC
ST	ST/SPC
ST/UPC	ST/UPC
LC	LC/SPC
LC/UPC	LC/UPC
MU/UPC	MU/UPC
N	None
Connector Key Orientation	
S	Slow axis
F	Fast axis
N	Not applicable <sup>2</sup>
Pigtail Length	
1	1 meter
X	Specify X meters

1. Corning SMF-28 only.
2. Specify "N" for all options except Corning PM 1300 fiber with FC connectors.