

ERBIUM AMPLIFIER COMPONENTS

TAP/ISOLATOR

DiCon's Tap/Isolator is a hybrid component that combines a thin film optical tap with a single stage isolator for use in fiber amplifiers. The Tap/Isolator has lower insertion loss, is a smaller package, and costs less than conventional approaches using separate components.



FEATURES

- Lower insertion loss, smaller package size, and lower cost compared to separate components
- Includes single stage isolator with PMD compensation
- Various tap ratios available
- Tested to Telcordia GR-1221

APPLICATIONS

Tap/Isolators minimize insertion loss in amplifiers where an optical tap and an isolator are used in series. Based on thin film technology, they can be used in fiber amplifiers without the need to splice together separate components.



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ERBIUM AMPLIFIER COMPONENTS

SPECIFICATIONS^{1,2}

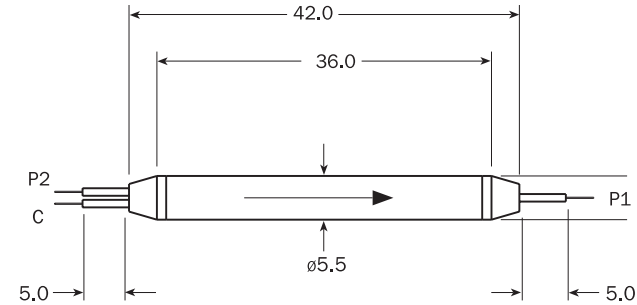
Signal passband ²	1530.0 - 1565.0 nm	
Insertion loss C - P1	2%	0.8 dB max.
	5%	1.0 dB max.
Insertion loss C - P2	2%	18 dB max.
	5%	15 dB max.
Power isolation; 23° C	27 dB min.	
Power isolation; Top	22 dB min.	
Signal ripple C - P1	0.2 dB max.	
Directivity	55 dB min.	
Back-reflection	-50 dB max.	
PDL C - P1	0.1 dB max.	
PDL C - P2	0.15 dB max.	
PMD	0.1 ps max.	
Optical power	300 mW max.	
Fiber type	9/125 Corning SMF-28	
Fiber jacket	250 micron, 200 kpsi bare fiber	
Operating temperature	0° C to +65° C	
Storage temperature	-40° C to +85° C	

1. All specifications referenced without connectors.
2. Other signal passbands available upon request.

ORDERING INFORMATION

TIS- <div></div> -2- <div></div>	
Tap Ratio	
2	2%
5	5%
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
Pigtail Length	
1	1 meter
X	Specify X meters

HOUSING DIMENSIONS¹



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

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