

WDM COMPONENTS

EDGEPASS FILTER

DiCon's Edgepass Filter is a two port component that uses a shortpass, longpass, or broad bandpass filter element to pass and reject wide spectral windows such as the 1310 nm, 1480 nm, 1550 nm, and 1625 nm (L band) windows. The component uses a thin film filter element mounted between a pair of GRIN lens collimators. DiCon's Edgepass Filter is housed in a compact, environmentally stable package that offers superior resistance to humidity and temperature and is suitable for mounting on a printed circuit board or within a module.



FEATURES

- Wide selection of broad spectral windows
- High isolation
- Low insertion loss
- Rugged, environmentally stable package
- Tested to Telcordia GR-1221

APPLICATIONS

Edgepass Filters enhance wavelength isolation in broadband WDM systems. They can be used to isolate optical time domain reflectometer (OTDR) signals from transmission signals in active fiber monitoring systems as well as to reject S, C, and L bands in DWDM systems.



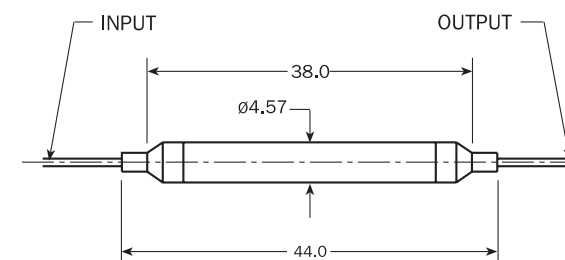
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SPECIFICATIONS¹

Insertion loss	0.5 dB typ., 0.7 dB max.
Isolation	45 dB min.
Back-reflection	-50 dB max.
PDL	0.05 dB typ., 0.1 dB 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.

HOUSING DIMENSIONS¹



Units: mm

1. Optional 38 or 40 mm housing lengths by request.

ORDERING INFORMATION

Transmission Band ^{1,2}		BFC- [] - [] - [] - [] - []
13	1260.0 - 1360.0 nm	
15	1530.0 - 1570.0 nm	
13/15	1260.0 - 1570.0 nm	
16	1570.0 - 1610.0 nm	
15/16	1530.0 - 1610.0 nm	
Rejection Band ^{1,2}		
13	1260.0 - 1360.0 nm	
15	1530.0 - 1570.0 nm	
13/15	1260.0 - 1570.0 nm	
16	1570.0 - 1610.0 nm	
15/16	1530.0 - 1610.0 nm	
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	
Fiber Jacket		
2	250 micron, 200 kpsi bare fiber	
9	900 micron, tight buffer	
Pigtail Length		
1	1 meter	
X	Specify X meters	

1. All wavelengths referenced to vacuum.

2. Transmission and rejection bands must not overlap.