

# WDM COMPONENTS

## WIDEBAND FILTER

DiCon's Wideband Filter transmits a narrow band of light at a customer specified center wavelength. The component uses an environmentally stable thin film filter element mounted between a pair of GRIN lens collimators. DiCon's Wideband 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. DiCon offers a wide variety of options for passbands and rejection bands.



### FEATURES

- Narrow bandwidths from 0.8 to 35 nm
- Low insertion loss
- Duplex option available
- Rugged, environmentally stable package
- Tested to Telcordia GR-1221

### APPLICATIONS

Wideband Filters pass one wavelength band while rejecting adjacent bands. They are used for signal isolation associated with DWDM lasers, detectors, and amplifiers.



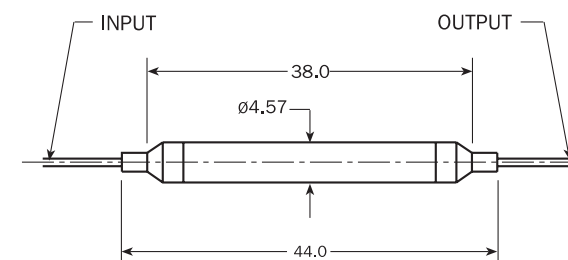
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## SPECIFICATIONS<sup>1</sup>

Insertion loss	0.6 dB typ., 0.8 dB max.
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 DIMENSIONS<sup>1</sup>



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

## ORDERING INFORMATION

BFC - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]	
Transmission Band <sup>1,2</sup>	xxx.x / xxx.x Specify values btw: 1500.0 - 1620.0 nm
Lower Rejection Band <sup>1,2</sup>	xxx.x / xxx.x Specify values btw: 1500.0 - 1620.0 nm
Upper Rejection Band <sup>1,2</sup>	xxx.x / xxx.x Specify values btw: 1500.0 - 1620.0 nm
Isolation	20 20 dB 25 25 dB 30 30 dB 35 35 dB X Specify
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/SPC 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.