Edgepass Filter

DiCon's Edgepass Filter is a two-port component that uses a shortpass, longpass, or bandpass filter element to pass and reject wide spectral windows such as the 1310-nm, 1480-nm, 1550-nm, and 1625-nm windows. The component uses a thin-film filter element mounted between a pair of GRIN 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
• Excellent isolation
• Ultra-low insertion loss
• Rugged, environmentally stable package
• Tested to Telcordia GR-1209 and 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.

Specifications[1]

Insertion loss	0.6 dB typ., 0.8 dB max.
Isolation	45 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
Humidity	85°C/85%RH/14 days

1. All specifications referenced without connectors.

Spectral Performance

1310-nm Shortpass Filter

1550-nm Longpass Filter

Housing Dimensions
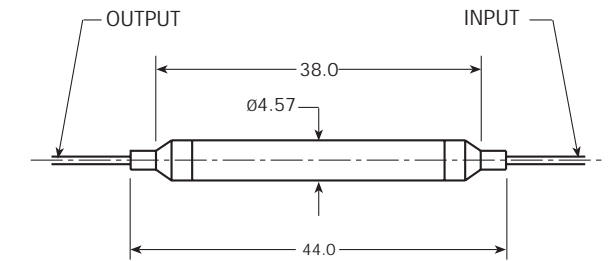
Units: mm

Ordering Information

BFC - ☐ - ☐ - ☐ - ☐ - ☐

Transmission Band[1,2]
13	1260.0 - 1360.0 nm
15	1530.0 - 1570.0 nm
13/15	1260.0 - 1570.0 nm
16	1610.0 - 1660.0 nm
15/16	1530.0 - 1660.0 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	1610.0 - 1660.0 nm
15/16	1530.0 - 1660.0 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/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.

DiCon Fiberoptics, Inc.   1689 Regatta Blvd.   Richmond, CA 94804   Tel. (510)528-0427   Fax. (510)525-5776   www.diconfiber.com