

ULTRA-COMPACT EDGEPASS FILTER (UEF)

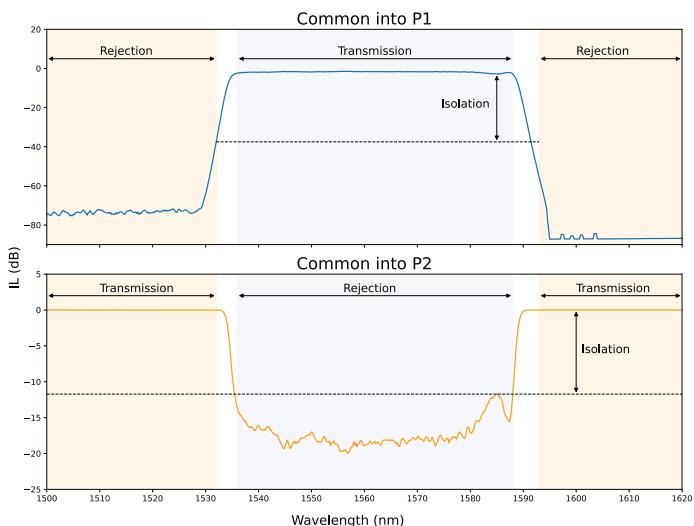
Singlemode Fiber



DiCon's **Edgepass Filter** is a **three-port component** that uses a shortpass, longpass, or broad bandpass filter element to pass and reject wide spectral windows such as the O, E, S, C, L, U-band as well as custom bands.

The component uses a thin film filter element mounted between a pair of collimator lenses, all housed in a compact, environmentally stable package. DiCon's Edgepass Filter offers superior resistance to humidity and temperature and is suitable for mounting on a printed circuit board or within a module. Available in singlemode, multimode and other fiber types.

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



ORDERING INFORMATION

UEF - T - R - - 9 - BF - - N -

Product Code			
UEF	Ultra Compact Edgepass Filter		
Transmission Band (Passed from Common through P1)	xxxx.x:yyyy.y from xxxx.x continuously to yyyy.y nm <i>*Multiple wavelength ranges can be supported. Use "/" for additional ranges. For example: Transmitting 950-1050nm and 1535-1589nm is written as T950:1050/1535:1589</i>		
Rejection Band (Rejected through P1, Passed through P2)	xxxx.x:yyyy.y from xxxx.x continuously to yyyy.y nm <i>*Multiple wavelength ranges can be supported. Use "/" for additional ranges. For example: Rejecting 1500-1532nm and 1592-1620nm is written as R1500:1532/1592:1620</i>		
Isolation (Common into P1)	25 25 dB X Specify X dB		
Fiber Type	9 9/125 µm SMF		
Fiber Jacket Type	BF 250 µm bare fiber		
Connector Type	N None FC FC/UPC FC/APC FC/APC LC LC/UPC LC/APC LC/APC SC SC/UPC SC/APC SC/APC		
Connector Key Orientation	N None		
Pigtail Length	1 1 Meter X Specify X Meters <i>*Tolerance is +/- 0.05 m</i>		



DiCon[®]
FIBEROPTICS

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OPTICAL SPECIFICATIONS¹

Insertion Loss ²	C - P1	< 0.8 dB, 0.6 dB Typ.
	C - P2	< 0.6 dB, 0.5 dB Typ.
Isolation	C - P2, Reflection	> 10 dB, 15 dB Typ.
Directivity		> 55 dB
Back Reflection		< -50 dB
PDL		< 0.1 dB, 0.05 dB Typ.
Optical Power		< 500 mW
Thermal Stability		< 0.005 dB/°C
Fiber Type		Singlemode

1. All specifications at room temperature.

2. Measured with 3-jumper method or equivalent (See TIA/EIA 526-7).

MECHANICAL SPECIFICATIONS

Dimensions in mm

3 Port Filter



Port Definitions

C	= Common Port
P1	= Transmission Port
P2	= Reflection Port

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-5 to 70°C
Storage Temperature	-40 to 85°C



DiCon Fiber optics, Inc.

www.diconfiberoptics.com