

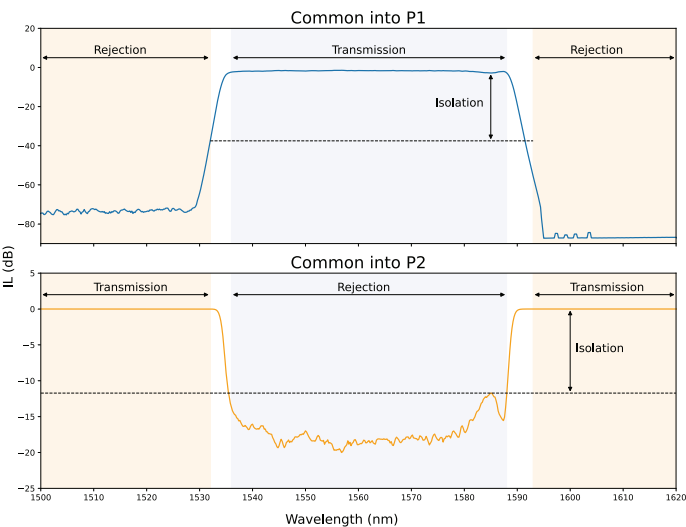
ULTRA-COMPACT EDGEPASS FILTER (UEF)  
Singlemode Fiber



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 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 um singlemode

Fiber Jacket Type	
BF	250 um 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>	

# ULTRA-COMPACT EDGE PASS FILTER (UEF)

## Singlemode Fiber

### OPTICAL SPECIFICATIONS<sup>1</sup>

Insertion Loss <sup>2</sup>	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		9/125 um singlemode

1. All specifications at room temperature  
2. Excluding connector loss. Measured with 3-jumper method or equivalent  
(See TIA/EIA 526-7)

### ENVIRONMENTAL SPECIFICATIONS

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

### MECHANICAL SPECIFICATIONS

Dimensions in mm

#### 3 Port Filter



- Port Definitions**
- C = Common Port
  - P1 = Transmission Port
  - P2 = Reflection Port