

## Gain Flattening Filter

The Gain flattening filter (GFF), based on fibre Bragg grating technology, with model number **OEGFF-100** is a reflective type filter. The **OEGFF-100** can be used in C-band or L-band erbium doped fibre amplifier (EDFA) or Raman amplifier. One advantage of the **OEGFF-100** compared with the thin film based GFF filter is that each filter shape is different, and there is no accumulated error when several of them are cascaded with each other. Advanced fibre Bragg grating fabrication technology and a patented temperature compensation package ensures the lowest ripple and smallest error function for the best gain equalization performance for your EDFA products.

The transmission curve of the **OEGFF-100** is custom designed to match your specific gain curve with a precision of +/- 0.2 dB for an attenuation of 7 dB from 1520 nm to 1625 nm, and with a precision of +/- 0.5 dB for a maximum attenuation up to 15 dB from 1520 nm to 1625 nm.

### Specifications of the OEGFF-100:

Parameter	Unit	Value
Wavelength range	nm	1520 - 1625
Precision (typical)	dB	0.5
Precision (typical)	dB	0.2
Maximum attenuation	dB	> 15
Insertion loss	dB	< 0.5
PDL	dB	< 0.1
PMD	ps	< 0.1
Fibre type	-	SMF-28 or compatible
Fibre pigtail	m	1 (or custom size)
Package (athermal, length x OD)	mm	78 x 7.3
Connector	-	FC/PC, FC/APC or SC

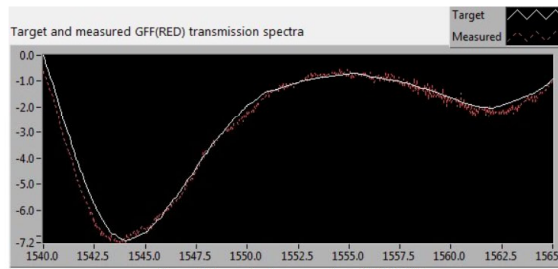


Figure 1: Transmission curve of one OEGFF-100

To manufacture and market fiber Bragg grating products, you need a fiber Bragg grating license. O/E LAND INC. has full **License Agreement from CRC/UTC Fiber Bragg Grating Technologies Portfolio**. Customers who use fiber Bragg gratings or incorporate fiber Bragg gratings with their own products must buy fiber Bragg grating from a manufacturer having a fiber Bragg grating license.