

# Optical Tunable Filter

OTF-300/310

The OTF-300 is a manually-tuned optical tunable which features a wavelength indicator. Tuning is achieved by rotating the dial on the side of the unit, and the meter on top of the unit provides the wavelength reference.

## Features

1. Manual tuning with tuning knob
2. Analog wavelength indicator

The OTF-310 features very fine tuning by use of a micrometer adjustment, providing a setting resolution which is ten times higher than that of the OTF-20/30M. The OTF-310 has its input and output fibers on the same side of the unit, and is suitable for system integration owing to its compact size.

## Features

1. Micrometer tuning
2. High setting resolution ( $\pm 0.01$  nm)
3. Compact size



## Typical Performance

|                       |              | OTF-300                                     | OTF-310                  |
|-----------------------|--------------|---|--------------------------|
| Center wavelength     | nm           | 1550 $\pm$ 10                               | 1550 $\pm$ 10            |
| Tuning range          | nm           | 40  | 20                       |
| Tuning resolution     | nm           | 0.1   | 0.01                     |
| Insertion loss        | dB           | See " Filter selection "                    | See " Filter selection " |
| Bandwidth             | nm           | See " Filter selection "                    | See " Filter selection " |
| PDL                   | dB           | 0.1(single stage), 0.2(double/triple stage) |                          |
| Return loss           | dB           | 45  | 45                       |
| Optical fiber         |              | SMF-2.0mm $\varnothing$                     | SMF-0.9mm $\varnothing$  |
| Tuning method         |              | Manual dial                                 | Micrometer               |
| Operating temperature | $^{\circ}$ C | 0 ~ 70                                      | 0 ~ 70                   |
| Size                  | mm           | 115 x 68 x 36                               | 60 x 70 x 20             |