

## In-Line Optical Filter OFM-15

The OFM-15 is a compact and reliable bandpass filter module. It uses Santec's proven interference filter technology and quality manufacturing techniques to provide a high isolation with long-term reliability and minimum loss. A wide range of filters are available; narrow bandwidth filters for individual channel filtering of 50, 100 and 200GHz spaced system, wide bandwidth filters for C/L, Red/Blue, 1310/1550, and B-PON band separation, OSC Filters and ASE noise cut Filters.

### Features

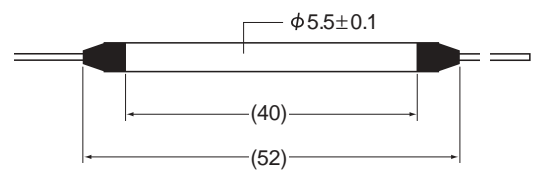
- ▶ Low passband flatness
- ▶ Compact size suitable for system integration
- ▶ High reliability (Telcordia GR-1221 qualified)
- ▶ Industry standard package

### Applications

- ▶ Specific band or group - channel filtering
- ▶ Noise clean-up filter
- ▶ ASE noise reduction in transmitter
- ▶ CATV, Access Networks
- ▶ The 50GHz Filter is suitable for Long Haul and METRO networks
- ▶ B-PON



### Dimensions



Unit: mm

■ Performance

Parameter	Unit	
Center Wavelength	nm	1550 nm window, ITU grid wavelengths
Thermal Stability (typical)	nm/°C	≤ 0.001
Return Loss	dB	≥ 50
Polarization Dependent Loss (PDL)	dB	≤ 0.1
Polarization Mode Dispersion (PMD)	ps	≤ 0.1
Optical Power	dBm	up to 23
Operating Temperature	°C	-5 to +70
Storage Temperature	°C	-40 to +85

■ 100 GHz Filter Specifications

Parameter	Unit	
Passband Width (-0.5dB Bandwidth )	nm	≥ ± 0.11
Flatness	dB	≤ 0.4
Insertion loss	dB	≤ 1.0
Adjacent Channel Isolation	dB	≥ 25
Non-adjacent channel isolation	dB	≥ 40

- \*1 All parameters are specified over operating temperature range.
- \*2 Insertion loss per filter includes Ripple and PDL, without connectors.
- \*3 Please contact Santec to discuss specific performance requirements.

■ Ordering Code

**OFM-15-A-B-C-D/E**

- A: Channel : **1**: 1ch
- B: Type : **10A0**: 100GHz Add **10D0**: 100GHz Drop **20A0**: 200GHz Add  
**20D0**: 200GHz Drop **40A0**: 400GHz Add **40D0**: 400GHz Drop
- C: Fiber Length : **10**: 1.0m **20**: 2.0m
- D: Connector : **00**: No Connector **FS**: FC-SPC **FA**: FC-APC **SS**: SC-SPC  
**SA**: SC-APC **MU**: MU-SPC **MJ**: MUJ-SPC **LC**: LC-SPC
- E: Center Wavelength : (ex) 1552.52nm --->1552.52

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