

In-Line Optical Filter OFM-15

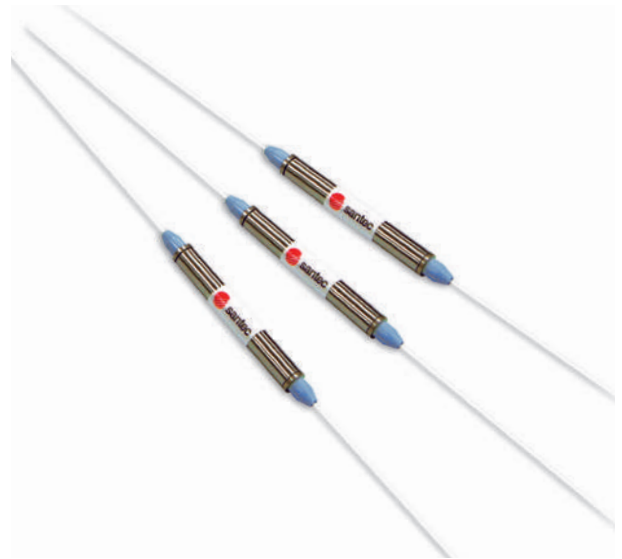
The OFM-15 is a compact and reliable bandpass filter module. It uses Santec's proven interference filter technology and quality manufacturing techniques to provide a high isolation with long-term reliability and minimum loss. A wide range of filters are available; narrow bandwidth filters for individual 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

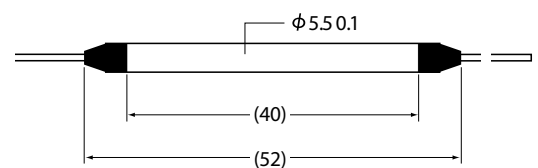
- ▶ Low passband flatness
- ▶ Compact size suitable for system integration
- ▶ Industry standard package
- ▶ Telcordia GR-1221 qualified
- ▶ RoHS compliant

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	≥ 45
Polarization Dependent Loss (PDL)	dB	≤ 0.15
Polarization Mode Dispersion (PMD)	ps	≤ 0.1
Optical Power	dBm	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	≤ 0.5
Insertion loss	dB	≤ 1.2
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
- 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

www.santec.com/en/

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