



3 Port Add/ Drop Module

WDM-15

Product Overview

Optimize your add/drop applications with Santec's WDM filters. Our standard WDM filters cover the ITU grid in C and L-bands for 100, 200, and 400 GHz channel spacing, with custom filter profiles available upon request. Fully tested for long term reliability these units boast high isolation as well as low insertion loss.



Features

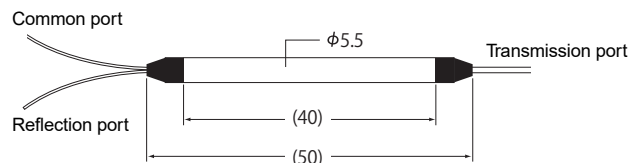
- Low loss, low PDL
- High channel isolation
- Compact size for system integration
- Telcordia GR-1221 qualified
- RoHS compliant



Applications

- DWDM channel add / drop
- Multi-channel multiplexer / demultiplexer

Dimensions Unit [mm]



Model Variations

Each type of filter has optimized performance (passband and isolation), designed specifically for adding or dropping channels in 100, 200 and 400 GHz spaced system. The center wavelength can be selected from any standard ITU grid wavelengths.

Typical Performance

Parameter	Unit		
Centre Wavelength	-	nm	1550 nm window, ITU grid wavelengths
Thermal Stability (Wavelength)	Typ.	nm / C	≤0.005
Directivity	Min.	dB	45
Return Loss	Min.	dB	45
Polarization Dependent Loss (PDL)	Max.	dB	0.15
Polarization Mode Dispersion (PMD)	Max.	ps	0.1
Optical Power	Max.	dBm	23
Operating Temperature	-	°C	-5 to +70
Storage Temperature	-	°C	-40 to +85

100 GHz Filter Specifications

Parameter	Unit		Add	Drop
Passband Width (-0.5 dB Bandwidth)	Min.	nm		0.11
Flatness	Max.	dB		0.5
Insertion loss	Max.	dB		1.2
Adjacent Channel Isolation	Min.	dB	12	25
Non-adjacent channel Isolation	Min.	dB	-	40
Insertion Loss of Reflect Channels	Max.	dB		0.5
Reflect Channel Isolation	Min.	dB		12(Typ.15)

200 GHz Filter Specifications

Parameter	Unit		Add	Drop
Passband Width (-0.5 dB Bandwidth)	Min.	nm	0.20	0.20
Flatness	Max.	dB		0.5
Insertion loss	Max.	dB		1.2
Adjacent Channel Isolation	Min.	dB	13	30
Non-adjacent channel Isolation	Min.	dB	-	40
Insertion Loss of Reflect Channels	Max.	dB		0.5
Reflect Channel Isolation	Min.	dB		12(Typ.15)

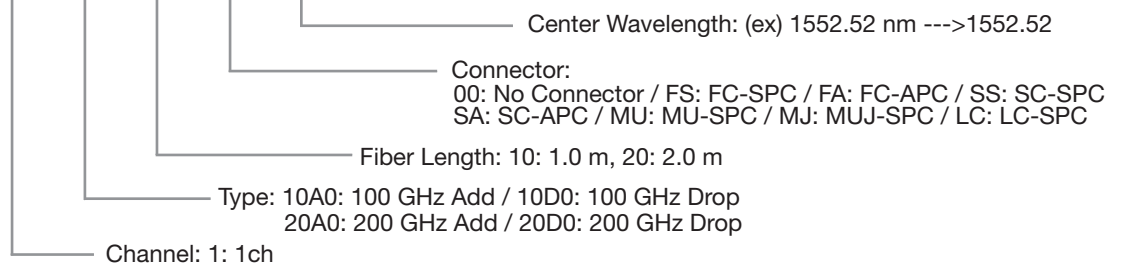
*1 All parameters are specified over operating temperature range.

*2 Insertion loss per filter includes Ripple and PDL, without connectors.

*3 Please contact Santec to discuss specific performance requirements.

Ordering Code

WDM-15 - A - B - C - D / E



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