

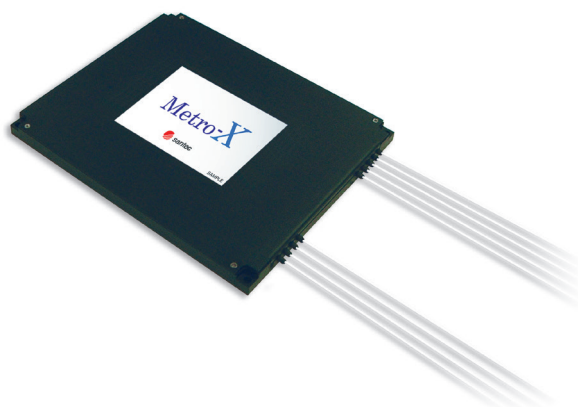


CWDM Mux/ Demux Filter

Metro-X

Product Overview

The CWDM Mux / Demux module is based on dielectric thin-film technology designed for integration in low cost Metro and Access networks. These include applications such as fiber to the home, business or curb. The module enables 4 or 8 channels to be either combined (added) or separated (dropped). The filters operate with a channel spacing of 20 nm corresponding to standard CWDM wavelengths. Santec's CWDM module has low insertion loss, high channel isolation, flat passband. Additional filters, to enable cascading of devices, or addition of 1310 nm or other wavelength, can also be included in the module.



Features

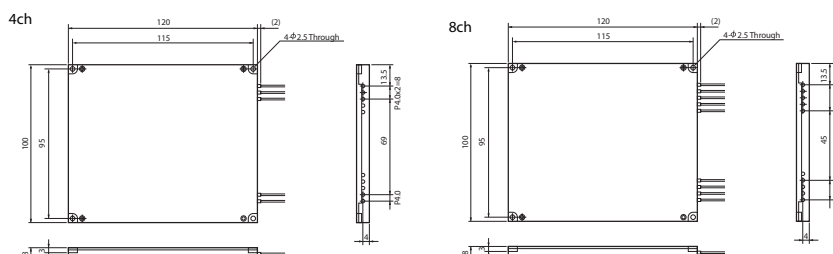
- Wide Operation Range:
1290-1350 nm, 1470- 1610 nm
- Low Insertion Loss: (Mux and Demux)
- Wide Pass Band
- High Channel Isolation
- Operating Temperature: -10 to 70 °C
- Long Term Reliability
- Telcordia-GR-1221 Qualified



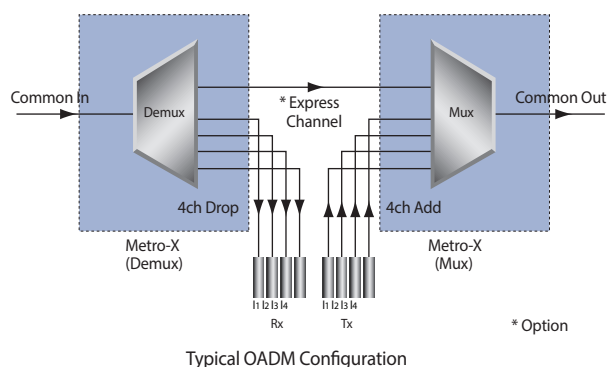
Applications

- Optical Add Drop Multiplexer
- Metro/Access Network system
- FTTH & FTTC
- CATV Applications

Dimensions Unit [mm]



Configuration



Typical Performance

Specification	Unit	Condition	Min	Max
Wavelength range	nm	20 nm channel spacing	-	-
Operating temperature	°C	-	-10	70
Insertion loss (Mux)	dB	@ λ c6.5 nm	-	1.4 (4ch) 2.6 (8ch)
Link loss (Demux)	dB	@ λ c6.5 nm	-	1.7 (4ch) 2.9 (8ch)
Insertion loss (Mux and Demux)	dB	@ λ c6.5 nm	-	2.5 (4ch) 3.7 (8ch)
Flatness	dB	@ λ c6.5 nm	-	0.4
Adjacent channel isolation (Demux)	dB	@ λ c13.5 nm	30	-
Non – adjacent channel isolation (Demux)	dB	@ λ c33.5 nm	45	-
Directivity	dB	-	45 (Mux)/55 (DeMux)	
PDL	dB	@center wavelength: λ c	-	0.2
Return loss	dB	-	50	-

*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.

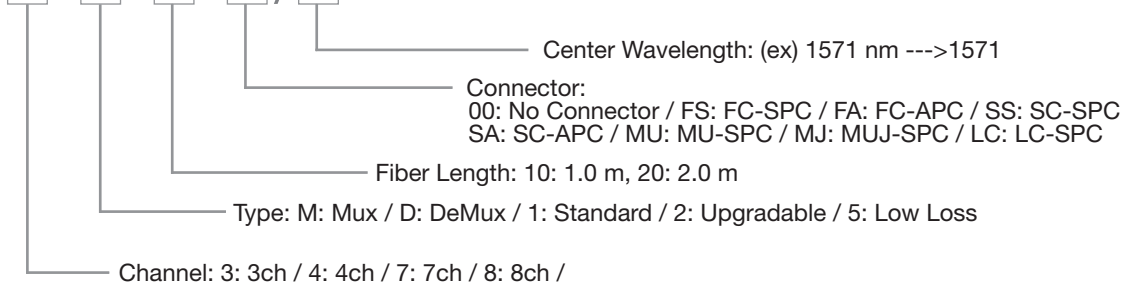
Wavelength

1291 nm	1311 nm	1331 nm	1351 nm
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1471 nm	1491 nm	1511 nm	1531 nm	1551 nm	1571 nm	1591 nm	1611 nm
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Ordering Code

Metro-X - 15 - A - B - C - D / E



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