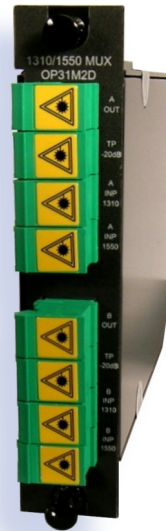


Features

- Dual packaged pairs of 1310/1550 nm multiplexers and demultiplexers in a single module
- Supports both forward and return path transmission of analog and digital signals
- Mux and demux pairs optimized for minimum combined insertion loss
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- Occupies one half-depth slot

1310nm/1550nm Optical Mux and Demux Modules



Aurora's OP31x2D family of 1310/1550 nm mux (and demux) units are provided as two independent multiplexers (and demultiplexers) in a single module and are designed to minimize the combined insertion loss of the multiplexing and demultiplexing process. Modules are provided with -20 dB test points.

Aurora Networks' multiplexers and demultiplexers are packaged in Aurora's very compact half-depth module for mounting in the CH3000 or PF3000 chassis. The packaging concept for Aurora's family of optical passives is similar to the well recognized LGX package; and, although Aurora's version of the LGX module is slightly narrower (for higher packaging density), it will also mount in any standard LGX chassis. Aurora's implementation maintains the advantages of the LGX concept (which enables easy, snap-in installation) while providing higher packaging density, greater flexibility and scalability to the network operator. When fully loaded, Aurora's CH3000 chassis holds 32 single-width, half-depth optical passive modules.

OP31M2D / OP31D2D

Product Specifications

Physical:

- Dimensions:
6.5" D x 4.3" H x 1.0" W (3RU) (17 cm x 11 cm x 2.5 cm)
- Weight:
0.8 lbs (0.36 kg)

Environmental:

- Operating temperature range: -20° to +65°C (-4° to 149°F)
- Storage temperature range: -40° to +85°C (-40° to 185°F)
- Humidity: 5% to 95% non-condensing

Optical:

- Optical connectors: SC/APC
- Connector identification (2 sets per module):
OP31M2D-1-99-AS
1550 INP, 1310 INP, OUT, TP -20dB (tap from mux output)
OP31D2D-1-99-AS
INP, 1550 OUT, 1310 OUT, TP -20dB (tap from demux input)

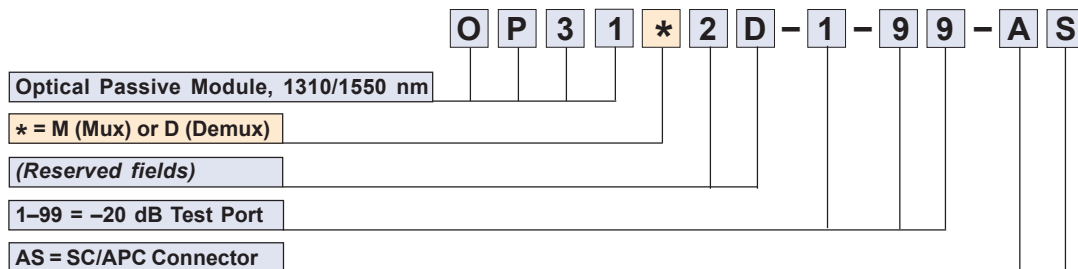
Model Number:	Mux Models	Demux Models
	OP31M2D-1-99-AS	OP31D2D-1-99-AS
Insertion loss ¹ , max (dB)		
1310 INP to OUT	0.5	N/A
1550 INP to OUT	0.5	N/A
INP to 1310 OUT	N/A	1.2
INP to 1550 OUT	N/A	1.2
Pair uniformity ¹ , max (dB)	0.3	0.4
Passband, min (nm)	40 ²	60 ³
Directivity (dB)	60	55
Return loss, min (dB)	45	50
Input power handling, max (dBm)	27	25
Isolation, min (dB)	N/A	45

¹ Including connector

² 1550 nm ± 20 nm, 1310 nm ± 45 nm

³ 1550 nm ± 30 nm, 1310 nm ± 45 nm

Ordering Information



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