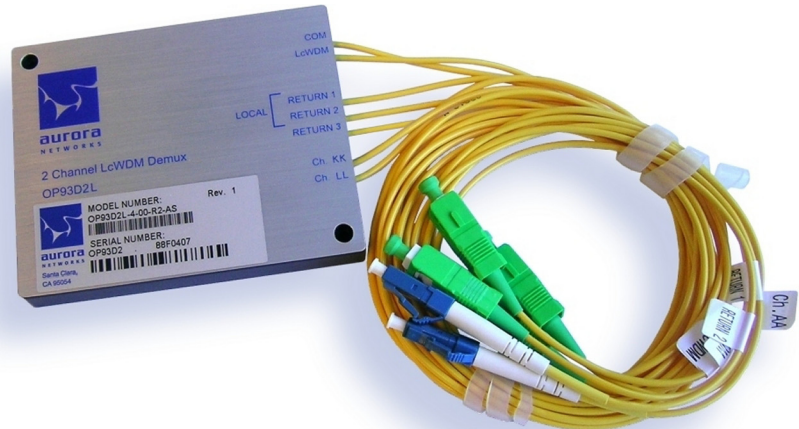


Features

- 2-channel optical demux modules
- Channels defined by LcWDM wavelengths (KK and LL)
- Cascade port on all models
- Optional downstream port and dual local ports for 1424–1617 nm return
- Flat-top passband
- High optical isolation
- Supports both forward and return path transmission of analog and digital signals
- RoHS compliant

LcWDM® 2-channel Demultiplexers for Wavelengths KK and LL



Pictured above: Model OP93D2L-4-00-R2-AS

Aurora Networks' OP93D2L 2-channel LcWDM demultiplexers facilitate LcWDM® architectures. All models are ideal for common node splitting / segmentation applications and can be mounted in the FT4005 fiber management tray of an NC4000 series optical node or nearby splice enclosure. LcWDM technology can dramatically increase network capacity without requiring additional fiber be deployed for super-trunking or narrowcasting applications.

The OP93D2L demultiplexes two LcWDM wavelengths transmitted from the headend, with a cascade port passing through any additional wavelengths.

On some models, additional ports exist to carry non-LcWDM upstream wavelengths on the same single fiber for return to the headend. Two "local return" ports may be connected to the output of DT4000 series digital transceivers (installed in the same optical node as the OP93D2L), and a third return port accepts the digitized traffic from a further downstream node, with the signals from all three return ports combined and transmitted upstream to the headend.

OP93D2L

Product Specifications

Physical:

- Dimensions: 3.8" L x 3.1" H x 0.3" D
(9.6 cm x 7.8 cm x 0.8 cm)
- Weight: 0.8 lbs (0.3 kg)

Environmental:

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

Optical Interface:

- Optical connectors: See *Ordering Information*
- Optical ports:
 - COM (input from fiber network)
 - LcWDM (output; NC or cascade to next demux)
 - Ch xx (2 channel drop outputs for LcWDM wavelength xx)
 - LOCAL RETURN 1 / 2 (interface ports to local DT4000 series transceivers installed in node for 1424-1617 nm digital return; not available on all models – see *Ordering Information*)
 - RETURN 3 (input from the digital return of a downstream node, combined with inputs from the LOCAL RETURN ports for upstream transmission of 1424-1617 nm return; not available on all models - see *Ordering Information*)

Optical:

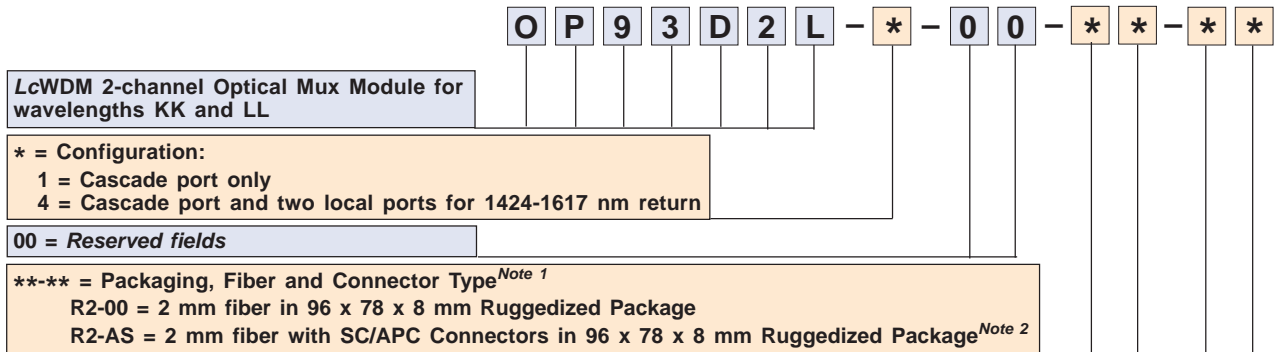
- LcWDM channels: KK and LL
- Passband @ 0.5 dB, min:
 - COM (input) to Ch. KK or LL port: > ±0.125 nm
 - COM to LcWDM (cascade out) port: passes 1263.5 – 1357.5 nm with a notch at the channel add/drop band (KK or LL)
- Insertion losses, including connectors, max:

	OP93D2L-1-00-R2-AS	OP93D2L-4-00-R2-AS
COM to Ch. xx	1.4 dB (1.0 dB typ)	2.2 dB (1.7 dB typ)
COM to LcWDM	1.2 dB (0.8 dB typ)	2.0 dB (1.4 dB typ)
COM to	N/A	8.9 dB (8.3 dB typ)
LOCAL RETURN 1 or 2		
COM to RETURN 3	N/A	4.6 dB (4.0 dB typ)

Note: Subtract 0.2 dB for modules with no connectors (OP93D2L-x-00-R2-00).

- Transmission port isolation:
 - Adjacent channel, min: 30 dB
 - Non-adjacent channel, min: 45 dB
- Reflect port isolation, min: 15 dB
- Directivity, min (dB): 50
- Return loss, min: 45 dB
- Polarization dependent loss, max: 0.1 dB (<0.05 dB typ)
- Power handling, max (any input port): 21.8 dBm

Ordering Information



Note 1: Minimum fiber lengths for all models is 1 (±0.15) meter. *Note 2:* LC/UPC connectors on LOCAL RETURN ports.



Corporate Headquarters
 5400 Betsy Ross Drive
 Santa Clara, CA 95054
 Tel 408.235.7000
 Fax 408.845.9045