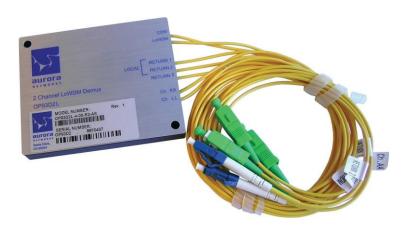
Optical Passives (OSP) OP93D2L



*Lc*WDM[™] 2-channel Demultiplexers for Wavelengths KK and LL

FEATURES

- 2-channel optical demux modules
- Channels defined by *Lc*WDM 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



PRODUCT OVERVIEW

ARRIS's OP93D2L 2-channel *Lc*WDM demultiplexers facilitate *Lc*WDM[™] 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. *Lc*WDM technology can dramatically increase network capacity without requiring additional fiber be deployed for super-trunking or narrowcasting applications.

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OSP-OP93D2L

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Node Segmentation

HPON[™]/RFoG

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

On some models, additional ports exist to carry non-*Lc*WDM 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.

SPECIFICATIONS

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Characteristics	Specification		
Physical			
Dimensions	3.8" L x 3.1" W x 0.3" H (9.6 cm x 7.8 cm x 0.8 cm)		
Weight	0.8 lbs (0.3 kg)		
Environmental			
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F)		
Storage Temperature Range	-40°C to +85°C (-40°F 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: > \pm 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 <i>Lc</i> WDM	1.2 dB (0.8 dB typ)	2.0 dB (1.4 dB typ)
	COM to LOCAL RETURN 1 or 2	N/A	8.9 dB (8.3 dB typ)
	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	50 dB		
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		

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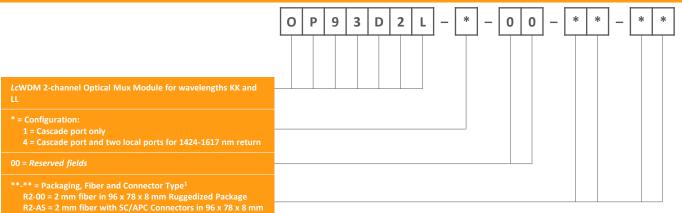
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ORDERING INFORMATION



Notes:

¹ Minimum fiber length for all models is 1 (\pm 0.15) meter.

² LC/UPC connectors on LOCAL RETURN ports.

Optical Passives
Optical Patch Cords
Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

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87-10416-RevC_OP93D2L_LcWDM-Demux

07/2016 ECO10360

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