Optical Passives (OSP) OP93D2B



*Lc*WDM[™] 2-channel Demultiplexers for Wavelengths AA and BB

FEATURES

- 2-channel optical demux modules
- Channels defined by LcWDM wavelengths (AA and BB)
- Cascade port on all models
- Optional 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 OP93D2B 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-OP93D2B

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Node Segmentation

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The OP93D2B 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 OP93D2B), with the signals from both return ports combined and transmitted upstream to the headend.

SPECIFICATIONS			
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 nr digital return; not available on all models-see Ordering Information) 		
Optical	· · · · ·	• • • ·	
LcWDM channels	AA and BB		
Passband @ 0.5 dB, min	 COM (input) to Ch. AA or BB port: > ± 0.125 nm COM to LcWDM (cascade out) port: passes 1263.5 – 1357.5 nm with a notch at the channel add/drop ban (AA or BB) 		
Insertion losses, including connectors, max		OP93D2B-1-00-R2-AS	OP93D2B-3-00-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 LOCAL RETURN 1 or 2	N/A	4.4 dB (4.1 dB typ)
	Note: Subtract 0.2 dB for modules with no connectors (OP93D2B-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		
	0.1 dB (< 0.05 dB typ)		
Polarization dependent loss, max	0.1 dB (< 0.05 dB typ)		

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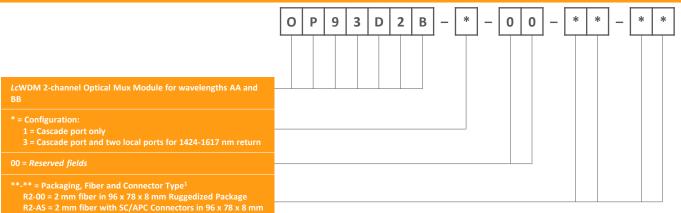
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ORDERING INFORMATION



Notes:

¹ Minimum fiber lengths 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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