

Optical Passives (OSP)

OP93D6S

LcWDM™ 6-channel Demultiplexers
for Wavelengths KK, LL, MM, NN, RR and SS

FEATURES

- 6-channel optical demux modules
- Channels defined by LcWDM wavelengths (KK, LL, MM, NN, RR, and SS)
- Includes optional return port for upstream digital 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 OP93D6S 6-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.

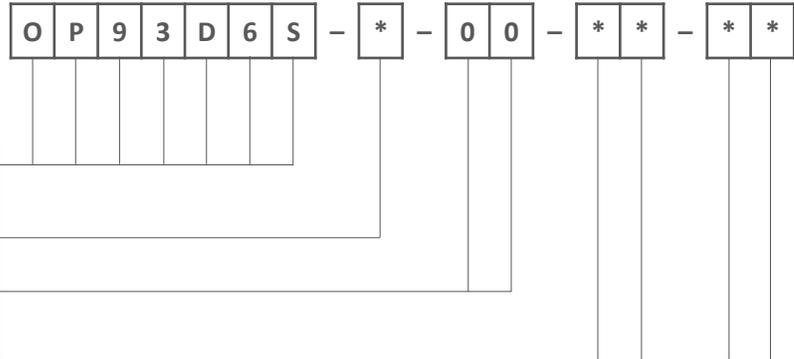
The OP93D6S demultiplexes up to six LcWDM wavelengths transmitted from the headend, with a cascade port passing through any additional wavelengths.

An optional port exists (-2) to carry non-LcWDM upstream wavelengths on the same single fiber for return to the headend; this return port accepts the digitized traffic from a further downstream node for upstream transmission 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	<i>See Ordering Information</i>
Optical ports	<ul style="list-style-type: none"> • INP (input from fiber network) • OUT (output; NC or cascade to next demux) • Ch xx (6 channel drop outputs for LcWDM wavelength xx) • RETURN (input from the digital return of a downstream node for upstream transmission of 1424-1617 nm return)
Optical	
LcWDM channels	KK, LL, MM, NN, RR and SS
Passband @ 0.5 dB, min	<ul style="list-style-type: none"> • INP to Ch. xx port: > ± 0.35 nm • INP to OUT port: passes 1263.5 – 1357.5 nm with a notch at the channel add/drop band
Insertion losses, including connectors, max	<ul style="list-style-type: none"> • INP to Ch. xx 4.2 dB (2.9 dB typ) • INP to OUT 3.7 dB (2.4 dB typ) • INP to RETURN 1.1 dB (1.0 dB typ)
	<i>Note: Subtract 0.2 dB for modules with no connectors.</i>
Transmission port isolation	<ul style="list-style-type: none"> • Adjacent channel, min: 30 dB • Non-adjacent channel, min: 45 dB
Directivity, min	50 dB
Return loss, min	45 dB
Polarization dependent loss, max	0.15 dB (< 0.05 dB typ)
Power handling, max (any input port)	21.8 dBm

ORDERING INFORMATION



LcWDM 6-channel Optical Demux Module for wavelengths KK, LL, MM, NN, RR, and SS

1 = No return port
2 = One return port

00 = Reserved fields

**.* = Packaging, Fiber and Connector Type¹
R2-00 = 2 mm fiber in 96 x 78 x 8 mm Ruggedized Package
R2-AS = 2 mm fiber with SC/APC Connectors in 96 x 78 x 8 mm Ruggedized Package

Note:

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

RELATED PRODUCTS

Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
Optical Nodes	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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