Optical Passives (OSP)

OP93D6S

*Lc*WDM™ 6-channel Demultiplexers for Wavelengths KK, LL, MM, NN, RR and SS

FEATURES

- 6-channel optical demux modules
- Channels defined by *Lc*WDM 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 *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.

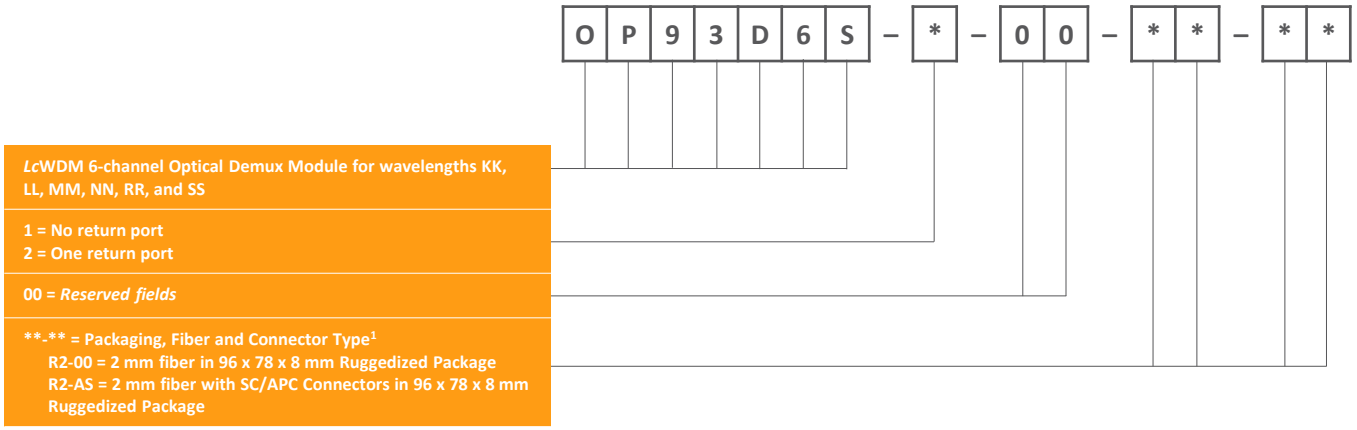
The OP93D6S demultiplexes up to six *Lc*WDM wavelengths transmitted from the headend, with a cascade port passing through any additional wavelengths.

An optional port exists (-2) to carry non-*Lc*WDM 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	*See Ordering Information*
Optical ports	• INP (input from fiber network) • OUT (output; NC or cascade to next demux) • Ch *xx* (6 channel drop outputs for *Lc*WDM wavelength *xx*) • RETURN (input from the digital return of a downstream node for upstream transmission of 1424-1617 nm return)
Optical	
*Lc*WDM channels	KK, LL, MM, NN, RR and SS
Passband @ 0.5 dB, min	• 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	• 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)
	Note: Subtract 0.2 dB for modules with no connectors.
Transmission port isolation	• 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



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

87-10372-RevC_OP93D6S_LcWDM-Demux 07/2016 ECO10360