

Optical Passives (OSP)

OP95D16-E

DWDM Demux Field Passives
(16 Channels on CORWave® 3 Channel Plan)

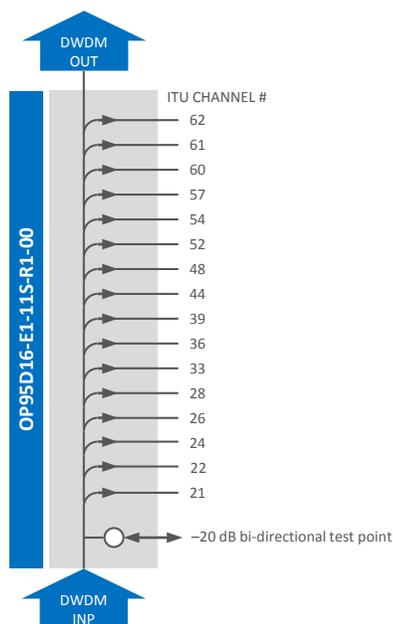
FEATURES

- 16-channel optical demux modules in field-hardened enclosures for the CORWave 3 channel plan
- Suitable for externally modulated or base-band digital or broadcast/narrowcast overlay systems
- High optical isolation
- Mux and demux pairs optimized for minimum combined insertion loss across all channels
- Epoxy-free optical path



PRODUCT OVERVIEW

ARRIS OP95D16-E series 16-channel DWDM de-multiplexers facilitate DWDM externally modulated or base-band digital or broadcast/narrowcast overlay applications. DWDM technology can dramatically increase network capacity without requiring additional fiber be deployed. When paired with the appropriate indoor NP35M16S0E multiplexer, an OP95D16-E provides optimal paired insertion loss and therefore system performance. These ruggedized modules have been designed for use in an outdoor environment with a temperature range of -40° to $+85^{\circ}\text{C}$, and are therefore suitable for use in splice enclosures and optical nodes.



SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions (without connectors)	3.78" L x 3.07" W x 0.51" H (9.6 cm x 7.8 cm x 1.3 cm)
Weight	1.0 lbs (0.45 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	
Return loss	45 dB
Polarization dependent loss, max	0.2 dB
Ripple within passband	0.2 dB
Supported ITU channels	De-multiplexed ITU Channels 21, 22, 24, 26, 28, 33, 36, 39, 44, 48, 52, 54, 57, 60, 61, and 62 of the CORWave 3 channel plan
Insertion losses, max	
DWDM INP to Ch yy OUT	2.8 dB
Paired insertion loss ¹	4.1 dB
DWDM INP to DWDM OUT	2.8 dB
DWDM INPUT to -20 dB bi-directional test port	20.4 dB
Module uniformity, max	1.7 dB
Passband @ 0.5 dB	<ul style="list-style-type: none"> DWDM INP to Ch yy OUT: ± 0.125 nm DWDM INP to DWDM OUT: 1423.5 through 1617.5 nm with notches at the de-multiplexed channels' bands and a notch at ITU Channels 40, 41, 42, and 43
Isolation, adjacent channel, min	30 dB
Isolation, non-adjacent channel, min	45 dB
Power handling, any input port, max	21.8 dBm
Optical Interface	
Optical fiber type and connectors	Ruggedized package with 1.5-meter pigtail of 0.9-mm tight buffered fibers and no connectors on all ports except the test port, which has a 0.75-meter pigtail terminated with an SC/APC connector

NOTE:

1. Paired insertion loss when paired with NP35M16S0E 16-channel mux module from Ch yy INP (in the mux) to Ch yy OUT (in the demux)

ORDERING INFORMATION

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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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