

Optical Passives (ISP) OP15M40, OP15D40 40-channel DWDM Optical Mux and Demux Chassis

FEATURES

- Mux and demux chassis in 1RU 19" housing
- 40 channels on standard DWDM ITU Grid (ITU-T G.694.1, 100 GHz spacing)
- Supports both forward and return path transmission of analog and digital signals
- Wide passband, flat response
- High isolation
- No powering required
- Mux and demux optimized for minimum paired insertion loss across all channels
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- -20 dB Test Point
- Industry's highest packaging density

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PRODUCT OVERVIEW

ARRIS OP15M40 and OP15D40 series multiplexers and demultiplexers facilitate implementation of Dense Wave Division Multiplexing (DWDM) architectures and are designed to minimize the combined insertion loss of multiplexing and demultiplexing. DWDM solutions can dramatically increase network capacity without requiring additional fiber be deployed for super-trunking or narrowcasting applications.

Ask us about the complete Access Technologies Solutions portfolio:

Optical Passives-OP15M40/D40

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Node Segmentation

HPON[™]/RFoG

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Chavestavistics											
Characteristics	Specification	Specification									
Physical											
Dimensions	13.1" D x 1.75" H x 19.0" W (1RU) (33.3 cm x 4.5 cm x 48.5 cm)										
Weight	10.1 lbs (4.6 kg)										
Environmental											
Operating temperature range (indoor)	-20° to +65°C (-4° to +149°F)										
Storage temperature range	-40° to +85°C (-40° to +185°F)										
Humidity	5% to 95% non-condensing										
Optical											
Optical connectors	SC/APC										
Channel spacing	100 GHz	100 GHz									
Channel plan	See DWDM ITU Channel Plans description										
ITU Channel Plans											
	spacing on the standard DWDM ITU (Channel 59 (1530.33 nm). The OP15M channels.	ARRIS supports DWDM network architectures with a variety of products having 100 GHz center frequency spacing on the standard DWDM ITU Grid (ITU-T G.694.1) for 40 channels from Channel 20 (1561.42 nm) to Channel 59 (1530.33 nm). The OP15M40U and OP15D40U mux and demux chassis encompass all 40 of these channels.									
	For more complete description of available DWDM ITU Grid channels and ARRIS's related mux and demux applications, please refer to the ARRIS DWDM ITU Grid Channel Plan dat										
	transmitters operate at 1563.0 nm ± 17 through 19. Similarly, AT3550 "BC	When ordering equipment, please note, for network planning purposes, that AT3550 "BA" series broadcast transmitters operate at 1563.0 nm ± 0.9 nm, occupying the approximate region of DWDM ITU Grid channels 17 through 19. Similarly, AT3550 "BC" series broadcast transmitters operate at 1545.3 ±0.9 nm, occupying t approximate region of DWDM ITU Grid channels 39 through 41.									
Optical	OP15M40U Mux	OP15D40U Demux									
Transmit insertion loss ¹ (dB)											
Typical	3.6	3.6									
Maximum	4.0	4.0									
Mux-demux paired insertion loss ^{1,2} (dB)											
Typical	6.2	6.2									
Maximum	6.5	6.5									
Uniformity ¹ (dB)											
Typical	1.6	1.6									
Maximum	2.0	2.0									
Paired uniformity ¹ (dB)											
Typical	0.8	0.8									
Maximum	1.4	1.4									
Paired uniformity ¹ (dB)											
Typical	0.8	0.8									
Maximum	1.4	1.4									
Pass band @ 0.5 dB, min (nm)	± 0.125	± 0.125									
Directivity, min (dB)	55	55									
Return loss, min (dB)	45	45									
Input power handling (any port), max (dBm)	21.8	24.8									
Adjacent channel isolation, min (dB)	N/A	30									
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Non-adjacent channel isolation, min (dB)	N/A	45									

TABLE NOTES:

¹ Insertion losses and uniformity including connector

² Paired insertion losses when combined with the corresponding 40-channel mux/demux chassis (from Ch. xx INP to Ch. xx OUT)
Models with -20 dB Test Points are 1% taps, with test point measurements from the DWDM OUT and DWDM INP ports for the OP15M40U and OP15D40U chassis, respectively.

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Ask us about the complete Access Technologies Solutions portfolio: **Node Segmentation**

Optical Passives-OP15M40/D40

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1RU DWDM Optical Mux/Demux Chassis																
* = M (Mux) or D (Demux)																
40 DWDM Channels																
ITU Channel Plan Designator (U)																
(Reference ARRIS DWDM ITU Grid Channel Plan Data Sheet)																
(Reserved field)																
** = –20 dB Test Port (00 = not present, 99 = present)																
AS = SC/APC Connectors																

RELATED PRODUCTS

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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87-10220-RevE_OP15M40-D40_MuxDemux

07/2016 ECO10405

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