

Headend Optics Platform (CH3000)

BP-35D4x

Optical Demux Back Plates (on 100 GHz-spaced ITU Grid)

FEATURES

- Unique 4-module-wide back plate design provides demultiplexing function without need for internal chassis slot
- Eliminates four patch cords
- 4 channels spaced on standard 100 GHz DWDM ITU grid (10 channel plans available)
- Demux optimized for minimum combined insertion loss across all channels
- Flat-top passband
- High optical isolation
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- Designed for use with AR3002G-1-AS series Analog Forward Receivers and CH3000 chassis



PRODUCT OVERVIEW

ARRIS' BP-35D4x series Optical Demux Back Plates facilitate implementation of Dense Wave Division Multiplexing (DWDM) architectures. DWDM technology can dramatically increase network capacity without requiring that additional fiber be deployed for super-trunking or narrowcasting applications.

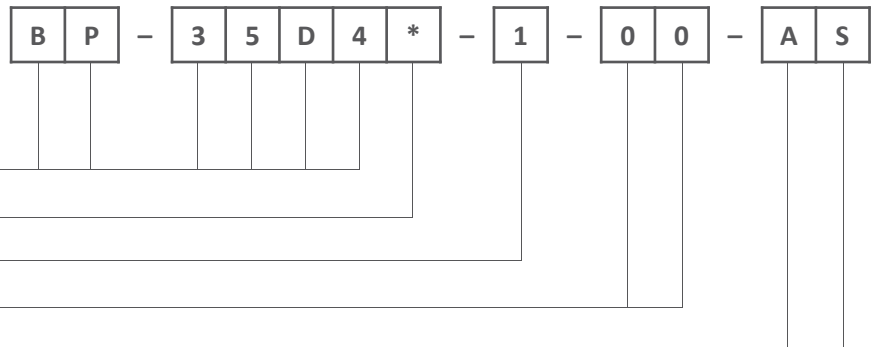
ARRIS's unique packaging of these 4-channel demultiplexers as back plates that can be easily attached to the rear of the CH3000 chassis eliminates the need to allocate internal chassis slots for dedicated demultiplexer modules.

The flexibility and efficiency of the BP-35D4x packaging concept is particularly noteworthy when these back plates are mated with up to four model AR3002G-1-AS Analog Forward Receivers installed in adjacent slots of the CH3000 chassis.

The passthrough DWDM input and output ports permit the cascading of all the BP-35D4x series demultiplexers, and facilitate the sequential demuxing of multiple (greater than four) individual ITU channels off of a single optical fiber.

SPECIFICATIONS		
Characteristics	Specification	
Physical		
Dimensions	7.5" D x 5.2" H x 4.25" W (3RU) (19 cm x 13 cm x 11 cm)	
Weight	1.4 lbs (0.7 kg)	
Environmental		
Operating Temperature Range	-20°C to +65°C (23°F to 149°F)	
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)	
Humidity	5% to 95% non-condensing	
Optical		
Channel spacing	100 GHz	
Channel plan	See ITU Channel Plans description below.	
Insertion losses, including connectors:	typ	max
• DWDM INP to Ch. xx OUT	1.4 dB	1.6 dB
• Paired ¹	2.2 dB	2.5 dB
• DWDM INP to DWDM OUT	1.0 dB	1.2 dB
	¹ Paired insertion loss when combined with 4-channel OP35M4x Mux Module	
Uniformity, including connectors:	typ	max
• Module uniformity	0.6 dB	0.8 dB
• Paired uniformity	0.4 dB	0.6 dB
Channel isolation:	typ	min
• Adjacent channels	> 35 dB	30 dB
• Non-adjacent channels	> 50 dB	45 dB
Passband @ 0.5 dB	± 0.12 nm	
Ripple within passband	0.5 dB	
Return loss, min	50 dB	
Polarization dependent loss, max	0.2 dB (< 0.1 dB typ)	
Power handling, max (any input port)	24.8 dBm	
Optical Interface		
Optical connectors	SC/APC	
DWDM INP	(input, from network or previous demux at backplate)	
Ch yy	(4 outputs at virtual mid-plane for Channel Group x)	
DWDM OUT	(output to next demux at backplate)	
Feed-through Interface		
	4 F-type female RF outputs	
ITU Channel Plans		
	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 Ch. 20 (1561.42 nm) to Ch. 59 (1530.33 nm).	
	BP-35D4x-1-xx-AS 4-channel Optical Demux Back Plates (for which inputs can be cascaded from one back plate to another) are available for the following channel groups:	
	• BP-35D4J for ITU Ch 20-23	BP-35D4P for ITU Ch 40-43
	• BP-35D4K for ITU Ch 24-27	BP-35D4R for ITU Ch 44-47
	• BP-35D4L for ITU Ch 28-31	BP-35D4S for ITU Ch 48-51
	• BP-35D4M for ITU Ch 32-35	BP-35D4T for ITU Ch 52-55
	• BP35-D4N for ITU Ch 36-39	BP-35D4U for ITU Ch 56-59
	For more complete description of available DWDM ITU Grid channels and ARRIS's partitioning into convenient logical groups of 4, 8, and 16 channels in products for DWDM mux and demux applications, please refer to the ARRIS DWDM ITU Grid Channel Plan data sheet.	

ORDERING INFORMATION



4-channel Optical Demux Back Plate	B P
* = DWDM ITU Grid Channel Plan (J, K, L, M, N, P, R, S, T, or U)	3 5 D 4 *
1 = 100 GHz Channel Spacing on DWDM ITU Grid	1
(Reserved Fields)	0 0
AS = SC/APC Connector	A S

RELATED PRODUCTS

CH3000 Transmitters	Optical Patch Cords
CH3000 Receivers	Optical Passives
CH3000 Chassis	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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