Optical Passives (ISP)

OP35M8-CFx-0-00-AS, OP35D8-CFx-0-00-AS

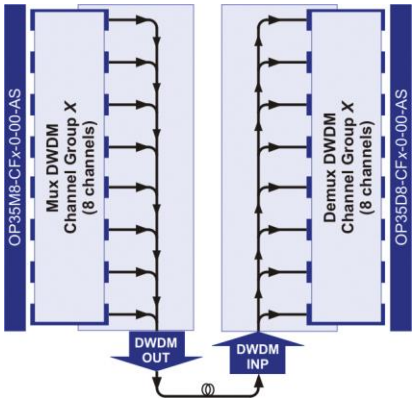
DWDM Mux and Demux Modules
8 Channels on 100 GHz-spaced ITU Grid

FEATURES

- 8-channel optical mux and demux modules
- Groups of channels specifically selected for use with AT3545G series Full Spectrum DWDM Transmitters
- Flat-top passband
- High optical isolation
- Mux and demux pairs optimized for minimum combined insertion loss across all channels
- SC/APC connectors ensure performance repeatability, compatibility, and easy installation and maintenance
- Occupies single half-depth slot
- Industry's highest packaging density (up to 32 modules per chassis)
- LGX chassis-compatible

PRODUCT OVERVIEW

ARRIS's OP35M8-CFx-0-00-AS and OP35D8-CFx-0-00-AS series 8-channel DWDM multiplexers and demultiplexers facilitate DWDM architectures. DWDM technology can dramatically increase network capacity without requiring additional fiber be deployed for super-trunking or narrowcasting applications. ARRIS supports DWDM 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 to Channel 59. This particular group of 8-channel mux and demux products are intended for use with ARRIS's AT3545G Full Spectrum DWDM Transmitters and are available with two different combinations of eight DWDM channels.

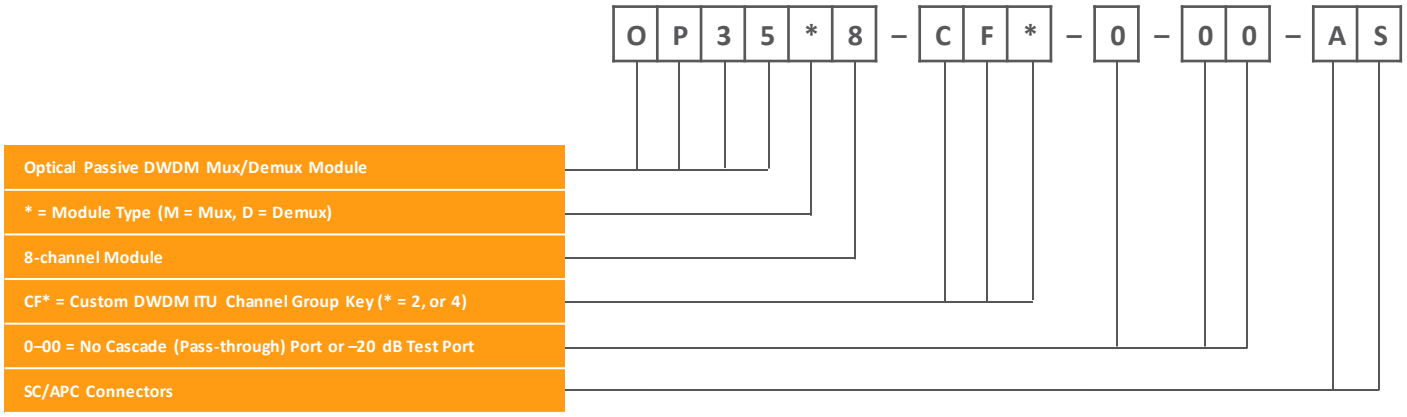


SPECIFICATIONS

Characteristics	Specification	
Physical		
Dimensions	6.5" D x 5.3" H x 1.0" W (3RU) (16.5 cm x 13.5 cm x 2.5 cm)	
Weight	1.2 lbs (0.5 kg)	
Environmental		
Operating Temperature Range	–20°C to +65°C (–4°F to +149°F)	
Storage Temperature Range	–40°C to +85°C (–40°F to +185°F)	
Humidity	5% to 95% non-condensing	
Optical (all models)		
Return loss, min	45 dB	
Polarization dependent loss, max	0.2 dB (< 0.1 dB typ)	
Ripple within passband	0.5 dB	
Channel spacing	100 GHz (ITU grid)	
Wavelength passthrough	1420–1610 nm	
Insertion losses, max[1] (dB)	**Mux Module** OP35M8-CFx-0-00-AS	**Demux Module** OP35D8-CFx-0-00-AS
Ch *yy* INP to DWDM OUT	2.3	*N/A*
DWDM INP to Ch *yy* OUT	*N/A*	2.3
Paired insertion loss[2]	3.1	3.1
Uniformity, max[1] (dB)		
Module	1.6	1.8
Paired	1.0	1.0
Passband @ 0.5 dB (nm)	± 0.12	± 0.12
Directivity, input ports, min (dB)	55	*N/A*
Isolation, adjacent channel, min (dB)	*N/A*	30
Isolation, non-adjacent channel, min (dB)	*N/A*	45
Power handling, any input port, max (dBm)	21.8	24.8
Optical Interface		
Optical connectors	SC/APC	
Model OP35M8-CF*x*-0-00-AS (for *x* = 2 or 4)	• Ch *yy* (8 channel add inputs for Custom Channel Group *x*) • DWDM OUT (output to fiber network or next mux)	
Model OP35D8-CF*x*-0-00-AS (for *x* = 2 or 4)	• DWDM INP (input from fiber network or previous demux) • Ch *yy* (8 channel drop outputs for Custom Channel Group *x*)	
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). OP35M8-CF*x*-0-00-AS and OP35D8-CF*x*-0-00-AS 8-channel Optical Mux and Demux Modules are identified with the following custom 8-channel group keys for the ITU channels shown for each: • CF2 ITU Channels 20, 21, 24, 29, 35, 42, 52, and 54 • CF4 ITU Channels 23, 33, 44, 47, 51, 57, 58, and 59	

NOTES:
1. Including connectors;
2. Paired insertion loss when combined with 8-ch demux module from Ch *yy* INP to Ch *yy* OUT, and vice-versa

ORDERING INFORMATION



RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
Optical Transmitters	Optical Passives
HPON™	Installation Services

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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