PL-300

The PL-300 Family - PacketLight's Passive Optical Solution For Dual and Single Fiber

FEATURE OVERVIEW

Maximize fiber utilization & capacity with passive optical solution that is simple to install and maintain

Transparent optical Multiplexing of any DWDM or CWDM optical signal regardless of service type and rate

Support for Single and Dual fiber

Cost effective, compact solution for 4/8/16/40/44/88/96 wavelengths division multiplexing solution

Supports a variety of network topologies and addresses add and drop service needs

Provides extended optical reach with dispersion compensation module (DCM)

Seamless operation with all PacketLight's products to form up to 96 DWDM stackable solution for multiplexing optical services up to 100G each

Supports Full C-band and L-band

Supprts 100GHz and 50GHz

PRODUCT DESCRIPTION

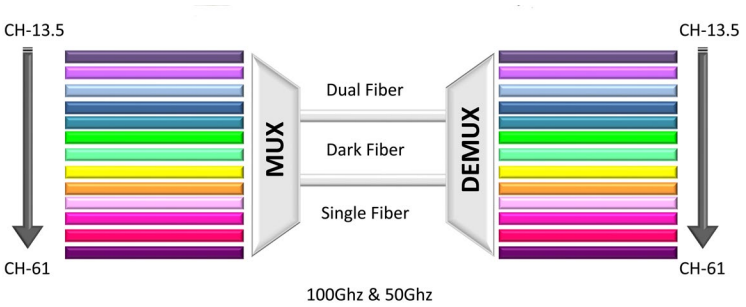
The PL-300 family of products extends PacketLight's optical network solution capabilities by providing a wide range of passive optical modules. The PL-300 provides the needed optical layer functions of 4/8/16/32/44/88/96 DWDM wavelength Multiplexing, 4/8/16 CWDM wavelength Multiplexing, Optical Dispersion Compensation Module (DCM), Optical Add and Drop (OADMs), splitter and combiners.

The PL-300 interconnects seamlessly with PacketLight's WDM product family and third party WDM products to form cost effective high capacity DWDM and CWDM solutions. The PL-300 provides low granularity wavelengths, add and drop capabilities and can be used to increase 4G and 10G solution reach.

The PL-300 is PacketLight's foundation for multi-chassis application architecture. With the PL-300, a customer can start with a low cost solution that meets urgent needs and grow step by step to form a full C-Band solution over a single or dual fiber as demand expands.

PL-300 is highly suitable for applications such as:

- Expansion of existing Fiber capacity with new services
- Building scalable high capacity pay as you grow optical networks
- Convergence of existing networks and new services over existing infrastructure
- Forming low cost fully passive optical solution, transparent to service rate & type
- Extending the optical reach with dispersion compensators
- Building cost effective add and drop networks



PacketLight NETWORKS

PL-300 CWDM

Standards	ITU G.694.2, TU G.671					
Description	Order Code CWDM	# MUX WLs	COM Fiber	MUX 1 [nm]	MUX 2 [nm]	Insertion Loss
CWDM 4ch Mux/Dmux	CWDM-1M-4W-1C-2F	4	Dual Fiber	1471-1531		<4db
CWDM 8ch Mux/Dmux	CWDM-1M-8W-1C-2F	8	Dual Fiber	1471-1611		<4db
CWDM 16ch Mux/Dmux	CWDM-1M-16W-1C-2F	16	Dual Fiber	1311-1611		<6db
2 x CWDM 4ch Mux/Dmux	CWDM-2M-4W-2C-2F	4	Dual Fiber	1471-1531	1471-1531	<4db
2 x CWDM 8ch Mux/Dmux	CWDM-2M-8W-2C-2F	8	Dual Fiber	1471-1611	1471-1611	<4db
2 x CWDM 16ch Mux/Dmux	CWDM-2M-16W-2C-2F	16	Dual Fiber	1311-1611	1311-1611	<6db
Single Fiber CWDM 8ch Mux	CWDM-1M-8W-1C-1F	8	Single	1471-1611		<4db
Single Fiber CWDM 16ch Mux	CWDM-1M-16W-1C-1F	16	Single	1311-1611		<6db
2 x Single Fiber CWDM 8ch Mux	CWDM-2M-8W-2C-1F	8	Single	1471-1611	1471-1611	<6db
2 x Single Fiber CWDM 16ch Mux	CWDM-2M-16W-2C-1F	16	Single	1311-1611	1311-1611	<10db

PL-300 DWDM C-band

Standards	ITU G.694.2, TU G.671		**Spacing-** 100GHz		**Wavelengths Range-** C Band	
Description	Order Code DWDM	# MUX WLs	COM Fiber	MUX 1 [nm]	MUX 2 [nm]	Insertion Loss
DWDM 4ch Mux/Dmux	DWDM-1M-4W-1C-2F	4	Dual Fiber	CH28-CH31		<4db
DWDM 8ch Mux/Dmux	DWDM-1M-8W-1C-2F	8	Dual Fiber	CH28-CH35		<4db
DWDM 16ch Mux/Dmux	DWDM-1M-16W-1C-2F	16	Dual Fiber	CH20-CH35		<6db
DWDM 40ch Mux/Dmux	DWDM-1M-40W-1C-2F	40	Dual Fiber	CH20-CH59		<7db
DWDM 44ch Mux/Dmux	DWDM-2M-44W-1C-2F	44	Dual Fiber	CH17-CH60		<7db
DWDM 88ch Mux DWDM 88ch Dmux	DWDM-1M-88W-1C-2F DWDM-1D-88W-1C-2F	88 88	Dual Fiber Dual Fiber	CH17-CH59.5 CH17-CH59.5		<10db
DWDM 96ch Mux DWDM 96ch Dmux	DWDM-1M-96W-1C-2F DWDM-1D-96W-1C-2F	96 96	Dual Fiber Dual Fiber	CH13.5-CH61 CH13.5-CH61		<10db
2 x DWDM 4ch Mux/Dmux	DWDM-2M-4W-2C-2F	4	Dual Fiber	CH28-CH31	CH28-CH31	<4db
2 x DWDM 8ch Mux/Dmux	DWDM-2M-8W-2C-2F	8	Dual Fiber	CH28-CH35	CH28-CH35	<4db
2 x DWDM 16ch Mux/Dmux	DWDM-2M-16W-2C-2F	16	Dual Fiber	CH20-CH35	CH20-CH35	<6db
Single Fiber DWDM 8ch Mux	DWDM-1M-8W-1C-1F	8	Single	CH28-CH35		<5db
Single Fiber DWDM 16ch Mux	DWDM-1M-16W-1C-1F	16	Single	CH20-CH35		<6db
Single Fiber DWDM 40ch Mux	DWDM-1M-40W-1C-1F	40	Single	CH20-CH59		<7db
2 x Single Fiber DWDM 8ch Mux	DWDM-2M-8W-2C-1F	8	Single	CH28-CH35	CH28-CH35	<6db
2 x Single Fiber DWDM 16ch Mux	DWDM-2M-16W-2C-1F	16	Single	CH20-CH35	CH20-CH35	<6db
2 x Single Fiber DWDM 8ch Mux Red/Blue	DWDM-2M-16W-1C-1F	16	Single	CH21-CH36	CH45-CH60	<6db

Optical Add/Drop Multiplexter

Singe Channel DWDM OADM	
Insertion Loss	Express 0.8dB Add/Drop 1 dB
Dual Channel DWDM OADM	
Insertion Loss	Express 1.3dB Add/Drop 1.5 dB
Quad Channe DWDM OADM	
Insertion Loss	Express 2.5dB Add/Drop 2.7dB
Standards	ITU G.671

DCM

Fiber Type	G.652
Fiber Span	20Km - 200Km
Wavelengths Range	1527nm-1567nm
Residual Dispersion	< +/- 2%
Max Insertion Loss	3dB
PMD	<1.2ps
Standard	ITU G.671

Physical Dimensions

Size	1.77" (1 RU) (H) x 17.32"(W) x 9.05"(D) 45 mm (H) x 440mm (W) x 220 mm (D)
Weight	3.5Kg (Max)

Environmental

Operating Temperature	-5°C to +65°C (+23°F to +149°F) Operational

Approvals & Standards

RoHS, REACH, ETSI
Meets Telecordia Standard
NEBS Compliant, ISO9001

Splitters/Combiners

Insertion Loss - DWDM	1.5dBm
Insertion Loss - CWDM	0.8dBm
Insertion Loss - 1310nm	<1.5dBm
Standards	ITU G.671

For further configuration options please contact info@packetlight.com

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