

1 CHANNEL DWDM OADM

OVERVIEW

DWDM Optical Add/Drop Multiplexers (OADM) allow for midspan access of DWDM channels along a single mode fiber route. 1 channel DWDM OADMs are commonly used at sites along a fiber route carrying 8 to 40+ DWDM channels and allow access to 1 channel while expressing the remaining channels through the site.

Plugin Optics DWDM OADM filter solutions are passive and require no power, or configuration. OADM filters are used to allow adding and dropping of DWDM wavelengths, West and East, along a single mode fiber route and provide a high quality, low loss, fiber capacity solution.

Plugin Optics LGX mounting solutions support controlled environment and I-Temp deployments.



FEATURES

- 1 Channel DWDM
- Configuration: OADM
- 40 Variants: ITU Ch 20-59
- 2% Monitor Port
- Form Factor: LGX
- Temp Range: I-Temp

ENVIRONMENT

- Central Office
- Headend
- Remote Site
- Cabinet
- Pedestal

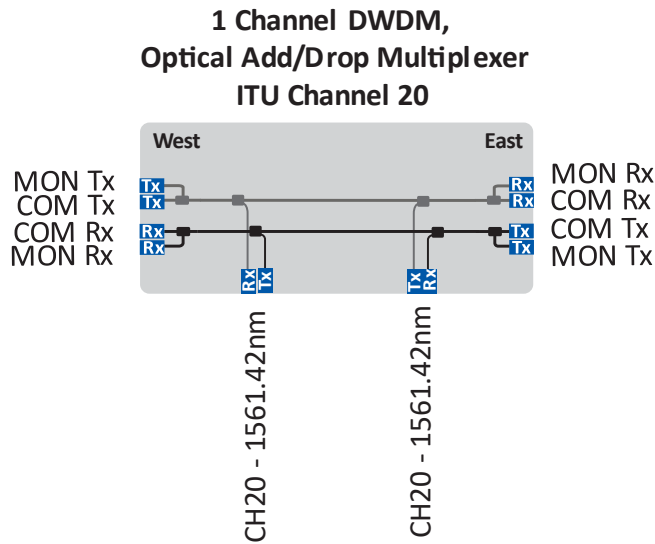
CONFIGURATIONS

- Point to Point
- Linear Chain
- Collapsed/Diverse Ring

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT		SPECIFICATION	
NUMBER OF CHANNELS	CH		1 DWDM, WEST & EAST	
OPERATING WAVELENGTH	nm		1520-1570	
DWDM CHANNEL SPACING	GHz		100	
PASSBAND: EXPRESS	nm		1520-1570	
PASSBAND: DWDM CHANNELS	nm		ITU ± .11	
INSERTION LOSS INCLUDING CONNECTORS			DEMUX	MUX
EXPRESS LOSS, COM TO COM	MAX.	dB	2.2	2.2
DWDM CHANNELS, COM TO DWDM CH	MAX.	dB	1.5	1.5
MONITOR	MAX.	dB	19	20.9
ADJACENT AND 1310 CHANNEL ISOLATION	MAX.	dB	30	
NON-ADJACENT CHANNEL ISOLATION	MAX.	dB	40	
PASS BAND RIPPLE / DWDM	MAX.	dB	0.5	
PDL /DWDM	MAX.	dB	0.2	
PMD	MAX.	ps	0.2	
DIRECTIVITY	MIN.	dB	50	
RETURN LOSS	MIN.	dB	45	
POWER HANDLING	MAX.	mW	300	
DIMENSIONS (H X W): FACEPLATE	mm		28.8 x 130	
DIMENSIONS (H X W X D): LGX BOX	mm		28.8 x 100 x 76.2	
DIMENSIONS: NYLATCH SPACING	mm		118	
OPERATING TEMPERATURE	°C		-40 ~ +85	
STORAGE TEMPERATURE	°C		-40 ~ +85	
FIBER TYPE	/		SMF 28	
CONNECTOR TYPE	/		LC/UPC	

LOGICAL DIAGRAM

The logical diagram shows how the channels flow through the filter. In an OADM the channel ports will be added and dropped to/from the common (COM) fiber for each direction, where the channel on the West side of the filter only connect to the West COM ports and vice versa. While the specified channel adds and drops, at the channel ports, all other C-band channels will express through the filter (from COM to COM) from West to East and vice versa. This logical diagram shows a 1 channel OADM (ITU Channel 20) filter.



ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
PLO-L3DT-A101-LC	LGX, 1 CHANNEL DWDM OADM, ITU C20, 1561.42, 2% MONITOR, LC-UPC
PLO-L3DT-A102-LC	LGX, 1 CHANNEL DWDM OADM, ITU C21, 1560.61, 2% MONITOR, LC-UPC
PLO-L3DT-A103-LC	LGX, 1 CHANNEL DWDM OADM, ITU C22, 1559.79, 2% MONITOR, LC-UPC
PLO-L3DT-A104-LC	LGX, 1 CHANNEL DWDM OADM, ITU C23, 1558.98, 2% MONITOR, LC-UPC
PLO-L3DT-A105-LC	LGX, 1 CHANNEL DWDM OADM, ITU C24, 1558.17, 2% MONITOR, LC-UPC
PLO-L3DT-A106-LC	LGX, 1 CHANNEL DWDM OADM, ITU C25, 1557.36, 2% MONITOR, LC-UPC
PLO-L3DT-A107-LC	LGX, 1 CHANNEL DWDM OADM, ITU C26, 1556.55, 2% MONITOR, LC-UPC
PLO-L3DT-A108-LC	LGX, 1 CHANNEL DWDM OADM, ITU C27, 1555.75, 2% MONITOR, LC-UPC
PLO-L3DT-A109-LC	LGX, 1 CHANNEL DWDM OADM, ITU C28, 1554.94, 2% MONITOR, LC-UPC
PLO-L3DT-A110-LC	LGX, 1 CHANNEL DWDM OADM, ITU C29, 1554.13, 2% MONITOR, LC-UPC
PLO-L3DT-A112-LC	LGX, 1 CHANNEL DWDM OADM, ITU C30, 1553.33, 2% MONITOR, LC-UPC
PLO-L3DT-A112-LC	LGX, 1 CHANNEL DWDM OADM, ITU C31, 1552.52, 2% MONITOR, LC-UPC
PLO-L3DT-A113-LC	LGX, 1 CHANNEL DWDM OADM, ITU C32, 1551.72, 2% MONITOR, LC-UPC
PLO-L3DT-A114-LC	LGX, 1 CHANNEL DWDM OADM, ITU-C33, 1550.92, 2% MONITOR, LC-UPC
PLO-L3DT-A115-LC	LGX, 1 CHANNEL DWDM OADM, ITU C34, 1550.12, 2% MONITOR, LC-UPC
PLO-L3DT-A116-LC	LGX, 1 CHANNEL DWDM OADM, ITU C35, 1549.32, 2% MONITOR, LC-UPC
PLO-L3DT-A117-LC	LGX, 1 CHANNEL DWDM OADM, ITU C36, 1548.51, 2% MONITOR, LC-UPC
PLO-L3DT-A118-LC	LGX, 1 CHANNEL DWDM OADM, ITU C37, 1547.72, 2% MONITOR, LC-UPC
PLO-L3DT-A119-LC	LGX, 1 CHANNEL DWDM OADM, ITU C38, 1546.92, 2% MONITOR, LC-UPC
PLO-L3DT-A120-LC	LGX, 1 CHANNEL DWDM OADM, ITU C39, 1546.12, 2% MONITOR, LC-UPC

ORDERING INFORMATION (continued)	
PART NUMBER	DESCRIPTION
PLO-L3DT-A121-LC	LGX, 1 CHANNEL DWDM OADM, ITU C40, 1545.32, 2% MONITOR, LC-UPC
PLO-L3DT-A122-LC	LGX, 1 CHANNEL DWDM OADM, ITU C41, 1544.53, 2% MONITOR, LC-UPC
PLO-L3DT-A123-LC	LGX, 1 CHANNEL DWDM OADM, ITU C42, 1543.73, 2% MONITOR, LC-UPC
PLO-L3DT-A124-LC	LGX, 1 CHANNEL DWDM OADM, ITU C43, 1542.94, 2% MONITOR, LC-UPC
PLO-L3DT-A125-LC	LGX, 1 CHANNEL DWDM OADM, ITU C44, 1542.14, 2% MONITOR, LC-UPC
PLO-L3DT-A126-LC	LGX, 1 CHANNEL DWDM OADM, ITU C45, 1541.35, 2% MONITOR, LC-UPC
PLO-L3DT-A127-LC	LGX, 1 CHANNEL DWDM OADM, ITU C46, 1540.56, 2% MONITOR, LC-UPC
PLO-L3DT-A128-LC	LGX, 1 CHANNEL DWDM OADM, ITU C47, 1539.77, 2% MONITOR, LC-UPC
PLO-L3DT-A129-LC	LGX, 1 CHANNEL DWDM OADM, ITU C48, 1538.98, 2% MONITOR, LC-UPC
PLO-L3DT-A130-LC	LGX, 1 CHANNEL DWDM OADM, ITU C49, 1538.19, 2% MONITOR, LC-UPC
PLO-L3DT-A131-LC	LGX, 1 CHANNEL DWDM OADM, ITU C50, 1537.40, 2% MONITOR, LC-UPC
PLO-L3DT-A132-LC	LGX, 1 CHANNEL DWDM OADM, ITU C51, 1536.61, 2% MONITOR, LC-UPC
PLO-L3DT-A133-LC	LGX, 1 CHANNEL DWDM OADM, ITU C52, 1535.82, 2% MONITOR, LC-UPC
PLO-L3DT-A134-LC	LGX, 1 CHANNEL DWDM OADM, ITU C53, 1535.04, 2% MONITOR, LC-UPC
PLO-L3DT-A135-LC	LGX, 1 CHANNEL DWDM OADM, ITU C54, 1534.25, 2% MONITOR, LC-UPC
PLO-L3DT-A136-LC	LGX, 1 CHANNEL DWDM OADM, ITU C55, 1533.47, 2% MONITOR, LC-UPC
PLO-L3DT-A137-LC	LGX, 1 CHANNEL DWDM OADM, ITU C56, 1532.68, 2% MONITOR, LC-UPC
PLO-L3DT-A138-LC	LGX, 1 CHANNEL DWDM OADM, ITU C57, 1531.90, 2% MONITOR, LC-UPC
PLO-L3DT-A139-LC	LGX, 1 CHANNEL DWDM OADM, ITU C58, 1531.12, 2% MONITOR, LC-UPC
PLO-L3DT-A140-LC	LGX, 1 CHANNEL DWDM OADM, ITU C59, 1530.33, 2% MONITOR, LC-UPC

NOTE: SEE PLUGIN OPTICS LGX MOUNTING CHASSIS BELOW.

LGX MOUNTING CHASSIS

OVERVIEW

Plugin Optics offers carrier grade, cost effective mounting solutions for LGX module deployments.

LGX Mount, 2-Slot “Universal Magnet Mount”

Part#: PLO-0RU-UMC-2LGX

Designed for rack space limited deployments, for example pedestals, cabinets or MDU environments where rack space may not be available. The Universal Magnet Mount can be magnet mounted to the steel walls or screwed directly into a wall board. This chassis will hold two LGX modules.

FEATURES:

- 2 LGX slots
- Magnet or Wall Mount



LGX Chassis, 1RU, 3-Slot “Universal 1RU Chassis”

Part#: PLO-1RU-LMC-3LGX

Designed for 1RU rack deployments, for example Central Office, Head End, Data Center, Cabinet and MDU. The Universal 1RU Chassis has reversible mounting brackets and can be mounted in 19” or 23” racks. The chassis has integrated fiber management and will hold three LGX modules.

FEATURES:

- 1RU, 3 LGX slots
- 19” or 23” racks
- Integrated fiber management



LGX Chassis, 3RU, 14-Slot “Universal 3RU Chassis”

Part#: PLO-3RU-LMC-14LGX

Designed for 3RU deployments, for example Central Office, Head End and Data Center. The Universal 3RU Chassis has reversible mounting brackets and can be mounted in 19” or 23” racks. The chassis has integrated fiber management and will hold fourteen LGX modules.

FEATURES:

- 3RU- 14 LGX slots
- 19” or 23” racks
- Integrated fiber management

