

1 CHANNEL CWDM OADM FILTERS

OVERVIEW

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

Plugin Optics CWDM OADM filter solutions are passive and require no power, or configuration. OADM filters are used to allow adding and dropping of CWDM 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 CWDM
- Configuration: OADM
- 2% Monitor Port
- Form Factor: LGX
- Temp Range: I-Temp

ENVIRONMENT

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

CONFIGURATIONS

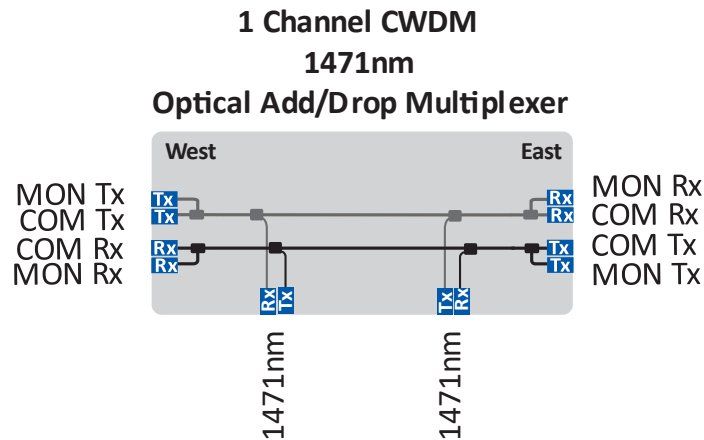
- Point to Point
- Linear Chain
- Collapsed/Diverse Ring

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT		SPECIFICATION	
NUMBER OF CHANNELS	CH		1 CWDM, WEST & EAST	
OPERATING WAVELENGTH	nm		1471- 1611	
CWDM CHANNEL SPACING	nm		20	
PASSBAND: EXPRESS	nm		1435-1625	
PASSBAND: CWDM CHANNELS	nm		ITU ± 6.5	
INSERTION LOSS			DEMUX	MUX
EXPRESS LOSS, COM TO COM	MAX.	dB	2.0	2.0
CWDM CHANNEL, COM TO CWDM CH	MAX.	dB	1.3	1.3
MONITOR	MAX.	dB	19	22.3
1310 CHANNEL ISOLATION	MAX.	dB	30	
NON-ADJACENT CHANNEL ISOLATION	MAX.	dB	40	
PASS BAND RIPPLE	MAX.	dB	0.5	
PDL	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 channels, between 1435nm & 1625nm, will express through the filter (from COM to COM) from West to East and vice versa. This logical diagram shows a 1 channel CWDM OADM filter.



ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
PLO-L3CT-B101-LC	LGX, 1 CHANNEL CWDM OADM, 1471NM, 2% MONITOR, LC-UPC
PLO-L3CT-B102-LC	LGX, 1 CHANNEL CWDM OADM, 1491NM, 2% MONITOR, LC-UPC
PLO-L3CT-B103-LC	LGX, 1 CHANNEL CWDM OADM, 1511NM, 2% MONITOR, LC-UPC
PLO-L3CT-B104-LC	LGX, 1 CHANNEL CWDM OADM, 1531NM, 2% MONITOR, LC-UPC
PLO-L3CT-B105-LC	LGX, 1 CHANNEL CWDM OADM, 1551NM, 2% MONITOR, LC-UPC
PLO-L3CT-B106-LC	LGX, 1 CHANNEL CWDM OADM, 1571NM, 2% MONITOR, LC-UPC
PLO-L3CT-B107-LC	LGX, 1 CHANNEL CWDM OADM, 1591NM, 2% MONITOR, LC-UPC
PLO-L3CT-B108-LC	LGX, 1 CHANNEL CWDM OADM, 1611NM, 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.

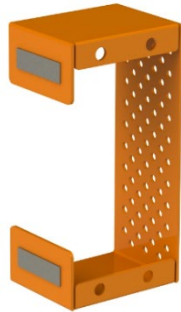
LGX Mount, 2-Slot “Universal Magnet Mount”

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

