

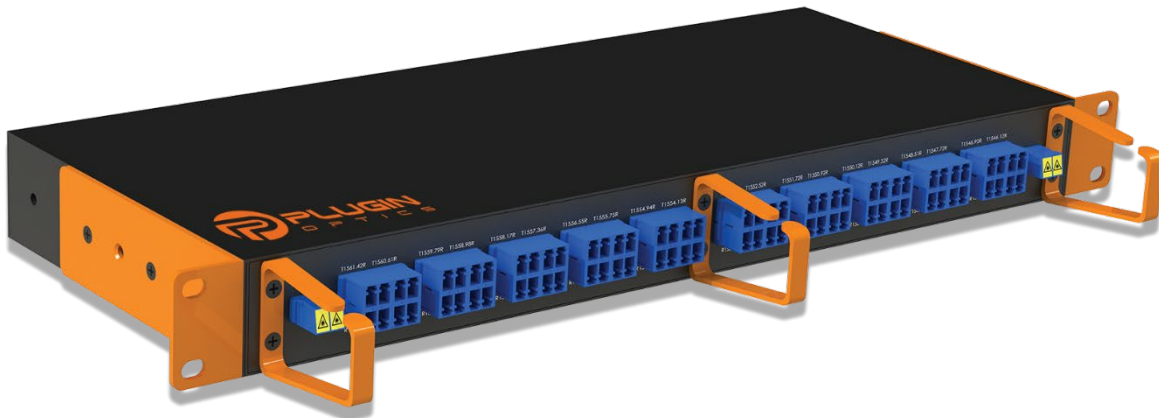
## 40 CHANNEL DWDM GAUSSIAN MUX/DEMUX

### OVERVIEW

The 40 channel DWDM Mux/Demux filter provides a solid capacity solution for modern fiber networks. This rack mounted filter uses ITU standard wavelengths that align with industry fixed and tunable transceivers. Utilizing 1 rack unit (1RU), and 100GHz channel spacing, this Rackmount filter provides a very economical capacity solution. This 40 channel Mux/Demux utilizes low loss and reliable Gaussian filters to help increase the optical power budget of your fiber network.

DWDM capacity solutions are passive and require no power, or configuration. DWDM filters are used to allow the combination (Multiplexing) and separation (Demultiplexing) of multiple wavelengths over single mode fiber and provide a high quality, low loss, fiber capacity solution.

Plugin Optics 40 Channel DWDM Rackmount solutions support controlled environment deployments. Placing these filters allow you to deploy new high data rate circuits or recover existing fiber along a route, reducing or eliminating the need for new fiber builds all together.



#### FEATURES

- 40 Channel DWDM Configuration: Mux/Dmx
- ITU Channels 20-59
- 2% Monitor Port
- Form Factor: Rack Mount
- Temp Range: C-Temp

#### ENVIRONMENT

- Central Office
- Headend
- Remote Site
- MDU
- Customer Premise

#### CONFIGURATIONS

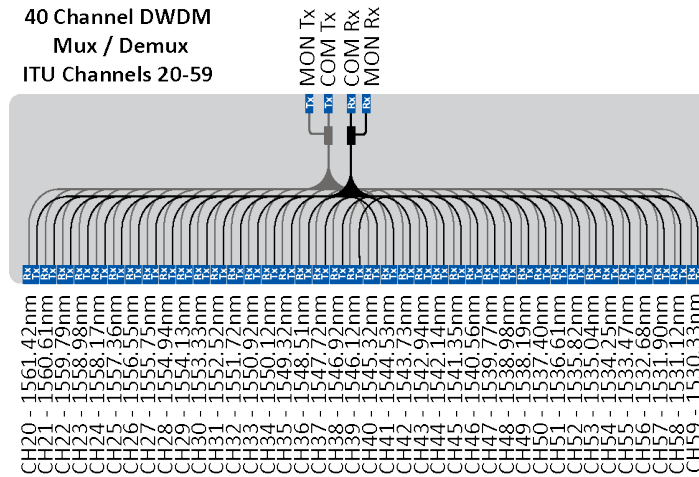
- Point to Point
- Linear Chain
- Collapsed/Diverse Ring

**TECHNICAL SPECIFICATIONS**

PARAMETER	UNIT		SPECIFICATION	
NUMBER OF CHANNELS	CH		40 CH DWDM	
OPERATING WAVELENGTH	nm		1260-1620	
DWDM CHANNEL SPACING	GHz		100	
PASSBAND: MON PORT	NM		1260-1570	
PASSBAND: DWDM CHANNELS	nm		ITU ± .11	
INSERTION LOSS			MAX.	TYP
DWDM CHANNELS LOSS	MAX.	dB	4.0	3.5
MONITOR	MAX.	dB	19	22.3
ADJACENT CHANNEL ISOLATION	MAX.	dB	25	
NON-ADJACENT CHANNEL ISOLATION	MAX.	dB	30	
PASS BAND RIPPLE / DWDM	MAX.	dB	1.0	
PDL /DWDM	MAX.	dB	0.2	
PMD	MAX.	ps	0.2	
DIRECTIVITY	MIN.	dB	40	
RETURN LOSS	MIN.	dB	40	
POWER HANDLING	MAX.	mW	250	
DIMENSIONS (H X W): FACEPLATE	mm		44 x 482.6	
DIMENSIONS (H X W X D): OVERALL	mm		44 x 250 x 482.6	
OPERATING TEMPERATURE	°C		-5 ~ +65	
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 a Mux/Demux channel ports will terminate or originate from/to the COM fibers and only channels listed are accessible. This is a Gaussian AWG filter so it features an extremely low loss per channel compared to thin film filter and the loss difference between all 40ch is <1db. This logical diagram shows a 40 Channel DWDM Mux/Dmx (ITU Channels 20- 59) filter.



ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
PLO-11DG-AAAA-LC	1RU, 19-23 INCH, 40 CHANNEL DWDM MUX-DEMUX, GAUSSIAN, ITU CH 20-59, 1561.42 - 1530.33, 2% MONITOR, LC-UPC

*NOTE: FOR LINEAR DROP AND CONTINUE CONFIGURATIONS CHECK OUT THE COMPLIMENTARY, LGX BASED 1, 2, 4, & 8 CHANNEL DWDM FILTER SOLUTIONS.*