

## 40 Channel DWDM Gaussian, 1RU Rackmount

### Features

- Capacity Gain: 40 to 1
- Monitor Port: 2%
- 40 ITU Channels
- Low Loss Gaussian Filter
- Technology: DWDM
- Configuration: Mux/Demux
- Form Factor: 1 Rack Unit
- Temp Range: C-Temp

### Topologies

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

### Deployment

- Central Office, Head End, Data Center, MDU

### Overview

The 40 channel DWDM Mux/Demux filter provides a solid capacity solution for modern fiber networks. This Rackmount 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.



PLO-11DG-AAAA-LC





Technical Specifications				
Parameter	Unit		Specification	
Number of Channels	CH		40ch DWDM	
Operating Wavelength	nm		1260-1620	
DWDM Channel Spacing	GHz		100	
DWDM Wavelengths	nm		1520-1570	
Monitor Wavelengths	nm		1260-1620	
Passband: DWDM Channels	nm		ITU ± .11	
Insertion Loss Including Connectors			Max	Typ
COM to CH, CH to COM	Max.	dB	4.0	3.5
Monitor	Max.	dB	19	22.3
DWDM Adjacent CH Isolation	Max.	dB	25	
DWDM Non-Adjacent CH Isolation	Max.	dB	30	
Pass Band Ripple / DWDM	Max.	dB	1.0	
PDL /DWDM	Max.	dB	0.2	
PMD	Max.	ps	0.5	
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	

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
<i>Note: For linear drop and continue see LGX 1-2-4-8 Channel DWDM filter solutions.</i>	



ITU Channel Reference- DWDM- 100Ghz Spacing						
ITU Ch	Freq.	Wavelength		ITU Ch	Freq.	Wavelength
20	192,000	1561.42		40	194,000	1545.32
21	192,100	1560.61		41	194,100	1544.53
22	192,200	1559.79		42	194,200	1543.73
23	192,300	1558.98		43	194,300	1542.94
24	192,400	1558.17		44	194,400	1542.14
25	192,500	1557.36		45	194,500	1541.35
26	192,600	1556.55		46	194,600	1540.56
27	192,700	1555.75		47	194,700	1539.77
28	192,800	1554.94		48	194,800	1538.98
29	192,900	1554.13		49	194,900	1538.19
30	193,000	1553.33		50	195,000	1537.40
31	193,100	1552.52		51	195,100	1536.61
32	193,200	1551.72		52	195,200	1535.82
33	193,300	1550.92		53	195,300	1535.04
34	193,400	1550.12		54	195,400	1534.25
35	193,500	1549.32		55	195,500	1533.47
36	193,600	1548.51		56	195,600	1532.68
37	193,700	1547.72		57	195,700	1531.90
38	193,800	1546.92		58	195,800	1531.12
39	193,900	1546.12		59	195,900	1530.33