

40 CHANNELS 100G DWDM MUX/DEMUX MODULE

Forty channels DWDM module is a passive optical add/drop multiplexer/demultiplexer designed for metro access applications that represent the state of the art in fiber optics design. Coherent's forty channels DWDM design maps the two added/dropped channel of forty wavelengths with 100GHz channel spacing into two-fiber paths, going in opposite directions into the network.

The DWDM module is packaged with a 1RU, 19" rack mount chassis for simple installation and modularity. This chassis based system offers network equipment manufacturers a more scalable and higher-density solution to add WDM capability to their existing and new networks with simple pluggable interface.

Coherent's DWDM product delivers dramatic cost savings to network equipment manufacturers, enabling them to develop metro access systems that are lower in cost, easier to provision and simpler to operate.



FEATURES

- Low optical insertion loss
- Mux/Demux forty channel wavelengths
- LC connectors
- Cost-effective technology
- Reliable passive WDM technology
- Scales easily for ring networks
- Low-profile modular design
- 1RU 19" rack mount chassis package
- Compliance with RoHS

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Channel Grid

#	ITU channel number	Wavelength (nm)	#	ITU channel number	Wavelength (nm)
1	21	1560.61	21	41	1544.53
2	22	1559.79	22	42	1543.73
3	23	1558.98	23	43	1542.94
4	24	1558.17	24	44	1542.14
5	25	1557.36	25	45	1541.35
6	26	1556.55	26	46	1540.56
7	27	1555.75	27	47	1539.77
8	28	1554.94	28	48	1538.98
9	29	1554.13	29	49	1538.19
10	30	1553.33	30	50	1537.40
11	31	1552.52	31	51	1536.61
12	32	1551.72	32	52	1535.82
13	33	1550.92	33	53	1535.04
14	34	1550.12	34	54	1534.25
15	35	1549.32	35	55	1533.47
16	36	1548.51	36	56	1532.68
17	37	1547.72	37	57	1531.90
18	38	1546.92	38	58	1531.12
19	39	1546.12	39	59	1530.33
20	40	1545.32	40	60	1529.55

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Specifications

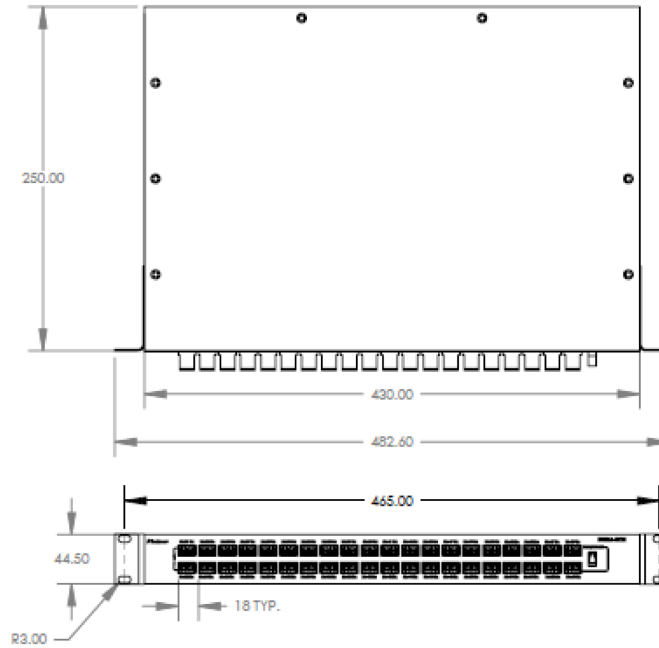
For all the optical specifications, the following condition applied:

1. The maximum insertion loss is under all state of polarization and within the full operation temperature and wavelength ranges specified.
2. All the parameters are including the connector loss.

Parameter	Conditions	Specification	Unit	
Operating Wavelength	DWDM Channel	1527.99 - 1577.03	nm	
Channel number		40		
Channel spacing	ITU 100GHz Grid	100G	HZ	
Channel Bandwidth	For all DWDM add/drop ports	± 0.11	nm	
		Min	Max	
DWDM Channel Insertion Loss			5.0	dB
Ripple	Within channel bandwidth		0.5	dB
Uniformity			1	dB
DWDM Channel Isolation for MUX&DEMUX	adjacent channel	30		dB
	non-adjacent channel	40		dB
PDL			0.25	dB
PMD			0.15	ps
Directivity		50		dB
Return Loss	At all ports	45		dB
Power Handling			300	mW
Operating Temperature		-5	+70	°C
Operating Relative Humidity		85% Maximum, non-condensing		
Storage Temperature		-40	+85	°C
Storage Relative Humidity		5 to 95% Maximum, non-condensing		
Package Type		1 RU 19" Rack		
Adapter type		Duplex LC/UPC		

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Mechanical Packaging



Panel Label



PN Information

FWSF-D-40-M/D-R-LC DWDM,40CH,MUX/DEMUX MODULE,1RU 19" RACK,LC