

48CH DWDM 100GHz (C17-C64) Dual fiber MUX & DEMUX 1U RACK

F-AAWG-1F3448C171U-55

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Features

- 1 U 19" Rack mount
- LC / UPC Duplex connector
- 1% Monitor port for Tx and Rx, easy troubleshooting for DWDM system
- ITU G.694.1 100GHz ITU grid, 0.8nm spacing
- Based on Athermal AWG DWDM module technology
- Gaussian Typical insertion loss < 4.0 dB
- Flat-top Typical insertion loss < 6.0 dB
- Telcordia GR-1209-CORE and CR-1221-CORE compliant
- 1% Monitor port for Tx and Rx, ensures easy troubleshooting without downtime
- RoHS6 compliant

Specifications

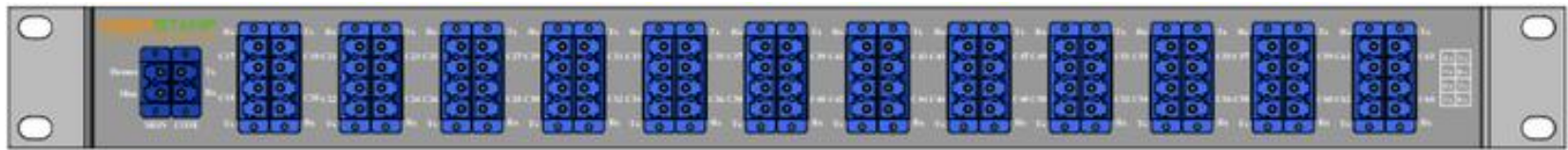
Parameters	Unit	Specification	
Pass Band Type	/	Gaussian	Flat-top
Grade	/	Typ	
Channel Number	/	48	
Channel Spacing	GHz	100	
Wavelength Accuracy	nm	0.05	
1dB Pass Band	nm	≥0.2	≥0.38
3dB Pass Band	nm	≥0.4	≥0.58
Insertion Loss ¹	dB	≤4.0	≤6.0
Ripple	dB	≤1.5	≤0.5
Uniformity	dB	≤1.5	≤1.5
Adjacent Crosstalk	dB	≥29	≥23
Non-adjacent Crosstalk	dB	≥35	≥29
Total Crosstalk	dB	≥21	
Polarization Dependent Loss(PDL)	dB	≤0.5	
PMD ²	ps	≤0.5	
Chromatic Dispersion ²	ps/nm	±20	
Return Loss	dB	≥40	
Operation Temperature	°C	-5~75	
Storage Temperature	°C	-40~+85	
Package	mm	483*245*44(19" Rack Mount Box)	

Mechanical Dimensions



Front view

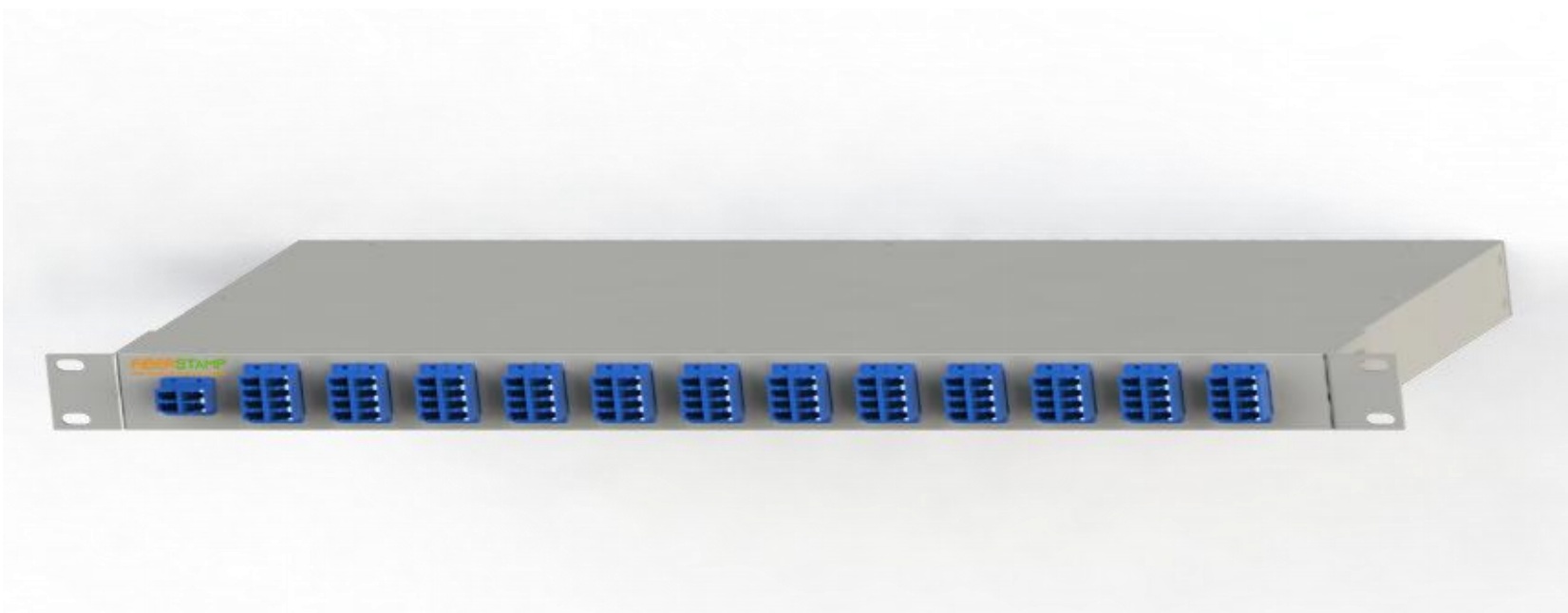
19" Rack (Rack-Mountable 483*245*44mm)



ITU Channel Guiding

ITU Channel (xx or yy)	Monitoring end	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Wavelength (nm)	1310	1563.863	1563.047	1562.233	1561.419	1560.606	1559.794	1558.983	1558.173	1557.363	1556.555	1555.747	1554.940	1554.134	1553.329	1552.524	1551.721	1550.918	1550.116	1549.315	1548.515	1547.715	1546.917	1546.119	1545.322

ITU Channel (xx or yy)	Monitoring end	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Wavelength (nm)	1310	1544.526	1543.731	1542.936	1542.142	1541.349	1540.557	1539.766	1538.976	1538.186	1537.397	1536.609	1535.822	1535.036	1534.250	1533.465	1532.681	1531.898	1531.116	1530.334	1529.553	1528.773	1527.994	1527.216	1526.438



Order Information:

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Revision History

Revision	Date	Description
V0	2022-06-10	Initial release

Important Notice

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