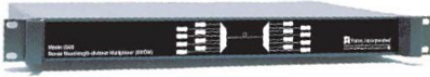


2925 DWDM 1550 nm Fiber Bi-Directional Multiplexer/Demultiplexer



Applications

- MDU
- CCTV
- Point to Multi-Point
- Tapped Trunk
- Site Diversity

Features

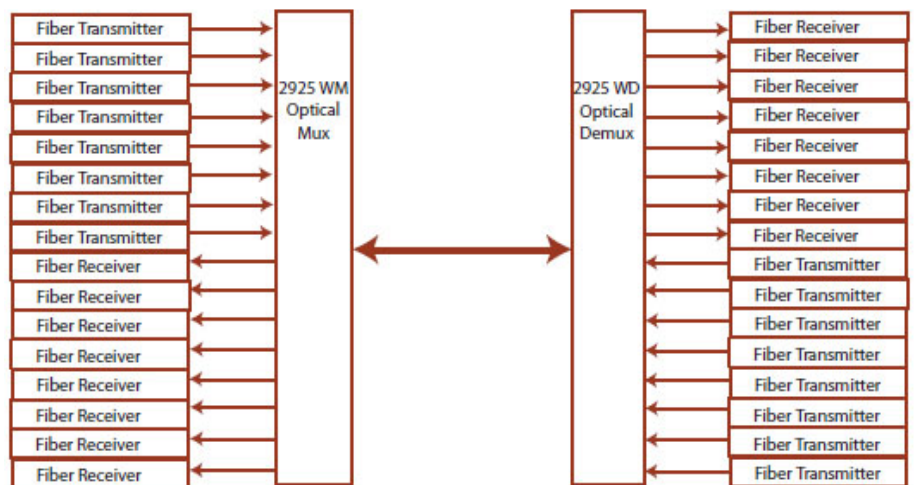
- Low Insertion Loss
- Low Polarization-Dependent Loss
- Bi-Directional Capability
- High Channel-to-Channel Uniformity
- Up to 32 ITU Channels
- 1 U Rack-Mountable Package

The EMCORE 2925 DWDM (Dense Wave Division Multiplexing) is an all fiber bi-directional multiplexer / demultiplexer that allows 4, 8, 12, 16, 24, or 32 channels to be stacked in the 1550 nm regions of optical fiber for both uni-directional and bi-directional applications. The 2925 implements high channel-to-channel isolation to ensure that no interference occurs between channels in a bidirectional configuration.



DWDM technology increases the capacity of embedded fibers, allowing system growth without costly cable plant upgrades. The EMCORE 2925 is an excellent choice for addressing the increased need for efficient and capable signal transmission.

Functional Diagram



2925 DWDM 1550 nm Fiber Bi-Directional Multiplexer/Demultiplexer



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ITU Channel Plan

Channel #	Wavelength	4-Way	8-Way	12-Way	16-Way	24-Way	32-Way
21	1560.61 nm	-	-	-	-	X	X
22	1559.79 nm	X	X	X	X	X	X
23	1558.98 nm	X	X	X	X	X	X
24	1558.17 nm	X	X	X	X	X	X
25	1557.36 nm	X	X	X	X	X	X
26	1556.56 nm		X	X	X	X	X
27	1555.75 nm		X	X	X	X	X
28	1554.94 nm		X	X	X	X	X
29	1554.13 nm		X	X	X	X	X
30	1553.33 nm			X	X	X	X
31	1552.52 nm			X	X	X	X
32	1551.72 nm			X	X	X	X
33	1550.92 nm			X	X	X	X
34	1550.12 nm				X	X	X
35	1549.32 nm				X	X	X
36	1548.51 nm				X	X	X
37	1547.72 nm				X		
38	1546.92 nm						
39	1546.12 nm						
40	1545.32 nm						
41	1544.53 nm						
42	1543.73 nm					X	X
43	1542.94 nm					X	X
44	1542.14 nm					X	X
45	1541.35 nm					X	X
46	1540.56 nm					X	X
47	1539.77 nm					X	X
48	1538.19 nm					X	X
49	1538.19 nm					X	X
50	1537.40 nm						X
51	1536.61 nm						X
52	1535.82 nm						X
53	1535.04 nm						X
54	1534.25 nm						X
55	1533.47 nm						X
56	1533.47 nm						X

General Specifications

Specifications	Values
Dimensions	11.9"D x 19"W x 1.75"L 302.2 mm x 482.6 mm x 44.4 mm
Weight	5.5 lbs / 2.49 kg
Operating Temperature	-40° to +75° C
Storage Temperature	-45° to +85°C
Humidity	0 to 95% non-condensing

Optical Specifications

Parameter	Min	Max	Units
Insertion Loss			
4-Way	2.0	2.4	dB
8-Way	3.6	4.5	
12-Way	4.4	5.3	
16-Way	5.2	5.8	
24-Way	6.6	7.5	
32-Way	7.5	8.5	
Channel Uniformity			
4-Way	-	1.2	dB
8-Way	-	1.5	
12-Way	-	1.5	
16-Way	-	1.5	
24-Way	-	1.5	
32-Way	-	1.5	
Isolation Adjacent Channel	25	-	dB
Isolation Non-Adjacent Channel	40	-	dB
PLD	-	0.1	dB
PMD	-	0.1	ps
Directivity	55	-	dB
Return Loss	45	-	dB
Optical Power		250	mW
Optical Power		24	dBm

2925 DWDM 1550 nm Fiber Bi-Directional Multiplexer/Demultiplexer



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Ordering Information

Model	Description
2925WM-SDSP/04	4-Channel DWDM, Mux, SC/APC, (Ch# 22-25)
2925WM-SDAP/04	4-Channel DWDM, Mux, FC/APC, (Ch# 22-25)
2925WD-SDSP/04	4-Channel DWDM, DeMux, SC/APC, (Ch# 22-25)
2925WD-SDAP/04	4-Channel DWDM, DeMux, FC/APC, (Ch# 22-25)
2925WM-SDSP/08	8-Channel DWDM, Mux, SC/APC, (Ch# 22-29)
2925WM-SDAP/08	8-Channel DWDM, Mux, FC/APC, (Ch# 22-29)
2925WD-SDSP/08	8-Channel DWDM, DeMux, SC/APC, (Ch# 22-29)
2925WD-SDAP/08	8-Channel DWDM, DeMux, FC/APC (Ch# 22-29)
2925WM-SDSP/12	12-Channel DWDM, Mux, SC/APC (Ch# 22-33)
2925WM-SDAP/12	12-Channel DWDM, Mux, FA/APC (Ch# 22-33)
2925WD-SDSP/12	12-Channel DWDM, DeMux, SC/APC (Ch# 22-33)
2925WD-SDAP/12	12-Channel DWDM, DeMux, FA/APC (Ch# 22-33)
2925WM-SDSP/16	16-Channel DWDM, Mux, SC/APC, (Ch# 22-37)
2925WM-SDAP/16	16-Channel DWDM, Mux, FC/APC, (Ch# 22-37)
2925WD-SDSP/16	16-Channel DWDM, DeMux, SC/APC (Ch# 22-37)
2925WD-SDAP/16	16-Channel DWDM, DeMux, FC/APC (Ch# 22-37)
2925WM-SDSP/24	24-Channel DWDM, Mux, SC/APC (Ch# 21-36, 41-48)
2925WM-SDAP/24	24-Channel DWDM, Mux, FC/APC (Ch# 21-36, 41-48)
2925WD-SDSP/24	24-Channel DWDM, DeMux, SC/APC (Ch# 21-36, 41-48)
2925WD-SDAP/24	24-Channel DWDM, DeMux, FC/APC (Ch# 21-36, 41-48)
2925WM-SDSP/32	32-Channel DWDM, Mux, SC/APC (Ch# 21-36, 41-56)
2925WM-SDAP/32	32-Channel DWDM, Mux, FC/APC (Ch# 21-36, 41-56)
2925WD-SDSP/32	32-Channel DWDM, DeMux, SC/APC (Ch# 21-36, 41-56)
2925WD-SDAP/32	32-Channel DWDM, DeMux, FC/APC (Ch# 21-36, 41-56)

