



The Emcore Model 6925 Coarse Wave Division Multiplexing (CWDM) is an all-fiber, bidirectional multiplexor / demultiplexor. The CWDM allows up to eight, channels to be stacked in the 1550 nm regions of optical fiber for both unidirectional and bidirectional applications. The Model 6925 implements high channel-to-channel isolation to ensure that no interference occurs between channels in a bidirectional configuration.

CWDM technology increases the capacity of embedded fibers, allowing system growth without costly cable plant upgrades. The Model 6925 is an excellent choice for addressing the increased need for efficient and capable signal transmission.

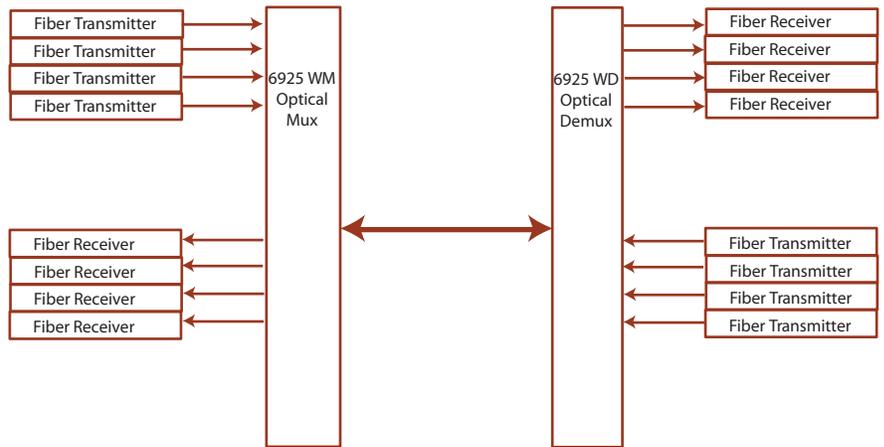
Features

- Low insertion loss
- Low polarization-dependent loss
- Bi-directional capability
- High channel-to-channel uniformity
- Up to 8 channels
- 1U Rack mountable package
- EDFA compliant wavelengths

Applications

- MDU
- CCTV
- Point to multi-point
- Tapped trunk
- Site diversity

Functional Diagram



General

Specifications	Values
Dimensions	11.9"D x 19"W x 1.75"H
Weight	5.5 lbs
Operating Temperature	-40° to +75°C
Storage Temperature	-45°C to +85°C
Humidity	0 to 95% non-condensing

Channel Plan

Channel	Wavelength	4-Way	6-Way	8-Way
47	1471 nm	X	X	X
49	1491 nm	X	X	X
51	1551 nm	X	X	X
53	1531 nm	X	X	X
55	1551 nm		X	X
57	1571 nm			X
59	1591 nm			X
61	1661 nm			X

Optical Specifications

Parameter	Min	Max	Units
Insertion Loss			
4-Way	2.0	2.5	dB
6-Way	2.8	3.4	
8-Way	3.6	4.5	
Channel uniformity			
4-Way	-	1.2	dB
6-Way	-	1.2	
8-Way	-	1.5	
Isolation Adjacent Channel			
4-Way	25	-	dB
6-Way	28	-	
8-Way	25	-	
Isolation Non-Adjacent Channel	40	-	dB
PDL			dB
4-Way	-	0.1	
6-Way	-	0.2	
8-Way	-	0.2	
PMD	-	0.1	ps
Directivity	55	-	dB
Return Loss	45	-	dB
Optical Power		250	mW
Optical Power		24	dBm

Models

	Description
6925WM-SDSP/04	4-Channel CWDM, Mux, SC/APC, (Ch# 51-57)
6925WM-SDAP/04	4-Channel CWDM, Mux FC/APC, (Ch# 51-57)
6925WD-SDSP/04	4-Channel CWDM, DeMux SC/APC, (Ch# 51-57)
6925WD-SDAP/04	4-Channel CWDM, DeMux FC/APC, (Ch# 51-57)
6925WM-SDSP/06	6-Channel CWDM, Mux, SC/APC, (Ch# 47-57)
6925WM-SDAP/06	6-Channel CWDM, Mux FC/APC, (Ch# 47-57)
6925WD-SDSP/06	6-Channel CWDM, DeMux SC/APC, (Ch# 47-57)
6925WD-SDAP/06	6-Channel CWDM, DeMux FC/APC, (Ch# 47-57)
6925WM-SDSP/08	8-Channel CWDM, Mux, SC/APC, (Ch# 47-61)
6925WM-SDAP/08	8-Channel CWDM, Mux FC/APC, (Ch# 47-61)
6925WD-SDSP/08	8-Channel CWDM, DeMux SC/APC, (Ch# 47-61)
6925WD-SDAP/08	8-Channel CWDM, DeMux FC/APC, (Ch# 47-61)