



## Smart Architecture of Espadana

Designing, Production, Customization and Consultant Service  
**in Network and Fiber Optic System**



## Technical Specification

**D/CWDM Products specification**





## OVERVIEW

In this SAE MUX/DEMUX product use the last generation of fiber optic technology. Coarse wavelength division multiplexer (CWDM Mux/Demux) is a pair of device that can develop channel and band width on the fiber cores. This product utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path.

SAE D/CWDM products can offer in 19" 1U rack mount and 8,16 even 18 channels on one or two cores of fiber.

## FEATURE

- Low Insertion Loss
- Wide pass band
- High Channel Isolation
- High Stability and reliability
- Epoxy-free on Optical Path
- Access Network



## APPLICATION

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical amplifier
- Access Network



**TECHNICAL SPECIFICATION**

Parameter	6 Channel		8 Channel		16 Channel	
	Mux	Demux	Mux	Demux	Mux	Demux
Channel Wavelength (nm)	1270~1610/1271~1611					
Center wavelength Accuracy (nm)	±0.5					
Channel Spacing (nm)	20					
Channel Passband (@-0.5dB bandwidth (nm)	+/-7.5/+/-6.5					
Insertion Loss (dB)	≤2.0		≤2.5		≤3.5	
Channel Uniformity (dB)	≤0.6		≤1.0		≤1.5	
Channel Ripple (dB)	0.3					
Isolation (dB)	Adjacent		>30			
	Non-adjacent		>40			
Isolation (dB)	Express with filter		>30			
	Express without filter		>12			
Insertion Loss Temperature Sensitivity (dB/°C)	<0.005					
Wavelength Temperature Shifting (nm/°C)	<0.002					
Polarization Dependent Loss (dB)	<0.1					
Polarization Mode Dispersion	<0.1					
Directivity (dB)	>50					
Return Loss(dB)	>45					
Maximum Power Handling (mW)	300					
Operating Temperature (°C)	-40~+85					
Storage Temperature (°C)	-40~+85					
Package dimension (mm) (Glass tube)	Ø5.5*25					
Package dimension (mm) (Steel tube)	Ø5.5*34					
Package dimension (mm) (ABS box)	A: L100 x W80 x H10				B: L140 x W115 x H18	
Package dimension (mm) (LGX box)	C: L129 x W29 x H155.5					
Package dimension (mm) (19" 1U Rackmount)	D: L440 x H44 x D200					



**ORDERING OPTIONS**

	<b>Number of Channels</b>	<b>Configuration</b>	<b>WAVELENGTH of 1st Channel</b>	<b>Fiber Type</b>	<b>Fiber Length</b>	<b>In/Out Connector</b>
<b>D/CWDM</b>	6 Channel	Mux Demux OADM	1270nm	Bare fiber	1m 2m Specify	FC/APC
	8 Channel		1310nm	900um		FC/PC
	16 Channel		1470nm	Loose tube		SC/APC
	18 Channel		1490nm	2mm Cable		SC/PC
			1550nm	3mm Cable		ST
	1610nm		LC			
					Specify	



APPLICATION

