



Better Than The Best...



**Skyway International**

The way to get clear picture from the sky

# 7, P.P. Lane, S.P. Road Cross, Bangalore - 560 002.

Ph : +91 80 2223 2749, +91 80 2222 0364, +91 80 4151 9912.

Fax : +91 80 4151 9913. Email : skywayint@rediffmail.com

## WDM•CWDM•DWDM

### Optinet Wavelength Division Multiplexer (WDM)

WDM system is a core component of WDM devices, their characteristics largely determine the good or bad the overall system performance. WDM device is the light wavelength synthesis and separation devices, known as the co-synthesized wave devices, known as the separation of the ODU. There are two most commonly used devices, ie optical fiber fused taper WDM devices and thin-film filter-based WDM devices.

#### Features

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path

#### Applications

- CATV System
- Access Networks
- Metro Networks



#### Specifications ( Standard 1310/1550nm WDM )

Parameters		Specification	Unit
Transmitted Band		1520-1610	nm
Reflected Band		1270-1350	nm
Passband Insertion Loss		0.7	nm
Reflected Band Insertion Loss		0.5	dB
Insertion Loss uniformity over Transmitted Band		0.2	dB
Insertion Loss Uniformity over Reflected Band		0.2	dB
Insolation in Transmission Against Reflected Band		35	dB
Isolation in Reflection against Transmitted Band		18	dB
PDL		0.1	dB
PMD		0.1	Ps
Return Loss	Single-Mode	50	dB
	Multi-Mode	40	dB
Directivity	Single-Mode	55	dB
	Multi-Mode	45	dB
Optical Power Handling		>500	mW
Operation Temperature		0 ~ 70	°C
Storage Temperature		-40 ~ 85	°C
Fiber Type		SMF 28, Mltimode 62.5/125 or Multimode 50/125	
Package Dimension (excluding strain relief)	Bare Fiber	Φ5.5 x 35 typical	Mm
	900um Loose Tube	Φ5.5 x 40 typical	

\* All parameters are referenced without connectors, Typical connector loss 0.25dB;



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**Optinet Specifications ( High Isolation 1310/1550 WDM )**

Parameters		Specification	Unit
Transmitted Band		1520-1610	nm
Reflected Band		1270-1350	nm
Passband Insertion Loss		1.0	nm
Reflected Band Insertion Loss		1.0	dB
Insertion Loss uniformity over Transmitted Band		0.3	dB
Insertion Loss Uniformity over Reflected Band		0.3	dB
Insolation in Transmission Against Reflected Band		45	dB
Isolation in Reflection against Transmitted Band		45	dB
PDL in Transmission		0.1	dB
PDL in Reflection		0.2	
PMD		0.1	Ps
Return Loss	Single-Mode	50	dB
	Multi-Mode	40	dB
Directivity	Single-Mode	55	dB
	Multi-Mode	45	dB
Optical Power Handling		> 500	mW
Operation Temperature		0 ~ 70	°C
Storage Temperature		-40 ~ 85	°C
Fiber Type		SMF 28, Mltimode 62.5/125 or Multimode 50/125	
Package Dimension (excluding strain relief)	Bare Fiber	Φ5.5 x 35 typical	Mm
	900um Loose Tube	Φ5.5 x 40 typical	

\* All parameters are referenced without connectors, Typical connector loss 0.25dB;



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## Optinet Coarse Wavelength Division Multiplexer (CWDM)

CWDM Module is compact and has the Properties of Low Insertion Loss, Low Crosstalk, and Wide Band Width High Isolation, Which Enables Users to Establish a Low Cost Bi-directional Optic Communication System

### Features

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- 2.8 Channels Configuration

### Applications

- CWDM/DWDM System
- CATV System



### Specifications

Parameter		Specifications	
Channels Number		4	8
Central Wavelength(nm)		1470,1490...1610 or 1471, 1491...1611	
Channel Spacing(nm)		20	
Channel Pass-band(nm)		Min	±6.5
Insertion Loss(dB)		Max	1.8      2.8
Isolation	Adjacent Channel	Min	30
	Non-adjacent Channel	Min	40
Pass-band Ripple(dB)		Max	0.4      0.5
Polarization Dependent Loss(dB)		Max	0.10
Polarization Mode Dispersion(Ps)		Max	0.10
Power Handling(mW)		Max	500
Fiber Type		Corning SMF-28/SFM-28e	
Operating Temperature( °C)		-10 ~ 70	
Storage Temperature( °C)		-40 ~ 85	
Package Dimension(mm)		100(L)x80(W)x10(H) 125(L)x96(W)x15(H)	



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## Optinet Dense Wavelength Division Multiplexer (DWDM)

DWDM Devices Utilize Thin-Film Filter Technology, Individual Components are Available on ITU Channel Spacing of 200 and 100 GHz, These Devices Exceed the Requirements of TelcordiaGR-1221, They Demonstrate Low loss, Temperature Insensitivity, and Reliable Performance in any System Application.

### Features

- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free in Optical Path
- Excellent thermal Stability



### Applications

- DWDM System
- Access Networks
- Long Haul Networks
- Metro Networks
- CATV System

### Specifications

Parameter		Specifications	
Channel Central Wavelength(nm)		C/L Band, ITU-T grid	
Channel Spacing(nm)		0.8(100GHz)	1.6(200GHz)
Channel Pass-band(nm)		ITU±0.11	ITU±0.25
Transmission Insertion Loss(dB)	Max	1.2(Typ 0.8)	1.0(Typ 0.7)
Reflection Insertion Loss(dB)	Max	0.6(Typ 0.4)	0.6(Typ 0.4)
Pass-band Ripple(dB)	Max	0.5	0.5
Transmission Isolation(dB)	Min	28	30
Reflection Isolation(dB)	Min	12	12
Return Loss(dB)	Min	45	45
Directivity(dB)	Min	50	50
Polarization Dependent Loss(dB)	Max	0.15	0.10
Polarization Mode Dispersion(Ps)	Max	0.10	
Insertion Loss	Max	0.005	
Temperature Sensitivity(dB/°C)			
Power Handling(mW)	Max	500	
Operating Temperature(°C)		-10 ~ 70	
Storage Temperature(°C)		-40 ~ 85	
Package Dimension(mm)		Φ5.5 x L34	