

# Compact CWDM Module

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## 1、Description

Compact Coarse Wavelength Division Multiplexer, based on Thin-Film-Filter and Micro-Optics, this product features small form, ultra low loss and high channel isolation. this technology is a lead-free packaging platform with high reliability.

## 2、Feature

- Mini Size
- High Reliability
- Low Insertion Loss and Better Uniformity
- Ultra-High Thermal Stability
- Epoxy-Free in Optical Path
- RoHS Compliant

## 3、Specification

Items	Unit	Parameter				
Channel Number		4	8	8+E1	8+E2	
Central Wavelength	nm	1270, 1290...1610 or 1271, 1291...1611				
Passband	Channel	±6.5				
	Upgrade Port	nm		1310±50	1260~1457	
Channel Spacing	nm	20				
Fiber Type		Corning SMF-28 with 900mm loose tube				
Insertion Loss	Channel	dB	≤1.0	≤1.5	≤1.6	≤1.8
	Upgrade Port	dB			≤1.2	≤1.2

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Isolation	Adjacent Channel	dB	≥30
	Non- Adjacent Channel		≥40
	Upgrade Port		≥15
Channel Ripple		dB	≤0.5
Polarization Dependent Loss		dB	≤0.15
Polarization Mode Dispersion		ps	≤0.1
Return Loss		dB	≥45
Directivity		dB	≥50
Maximum Power Handling		mw	≤500
Operating Temperature		°C	-5 ~ 70
Storage Temperature		°C	-40 ~ 85
Package Dimension		mm	L44*W28*H6

Note: All parameters are w/o connector. Add 0.3dB loss if need connector.

### 4、 Application

- CWDM System
- CATV System
- Network upgrading