PRODUCT INTRODUCTION

Coarse Wavelength Division Multiplexer

The Coarse Wavelength Division Multiplexer (CWDM) is a low-cost WDM transmission technology for metro and access networks. In principle, CWDM uses an optical multiplexer to transmit optical signals of different wavelengths into a single optical fibre for transmission. At the receiving end of the link, the mixed signals in the optical fibre are decomposed into signals of different wavelengths with the help of optical demultiplexer, which is connected to the corresponding receiving device. Using thin film filter technology, it has characteristics such as high isolation and high reliability.

Features

- Low insertion loss, high isolation
- Excellent thermal stability
- Compliant with Telcordia standards
- Compliant with RoHS standards

Applications

- CWDM system
- Metropolitan Area Network (MAN) and Access Network (AN)
- CATV network

Parameters

Specifications

Parameters	Specifications				
Center wavelength (nm)	1270, 1290~1590, 1610 or 1271, 1291~1591, 1611				
Channel spacing (nm)	20				
Bandwidth (@3dB)(nm)	≥15				
Center wavelength accuracy(nm)	±1.5				
Operating wavelength (nm)	1260~1620 or customized				
Insertion loss (dB)	4CH ≤1.4	6CH ≤2.0	8CH ≤2.5	12CH ≤3.2	16CH ≤4.0
Pass band flatness (dB)	≤0.5				
Adjacent channel isolation (dB)	≥ 30				
Non-Adjacent channel isolation (dB)	≥ 40				
Polarization dependent loss (dB)	≤ 0.2				
Return loss (dB)	≥ 45				
Directivity (dB)	≥ 50				
Polarization mode dispersion (PS)	≤ 0.15				
Wavelength thermal stability (nm/℃)	≤0.002				
Insertion loss thermal stability (dB/℃)	≤0.007				
Operating temperature (℃)	-10~+65				
Storage temperature (℃)	-40~+85				
Package dimension (mm)	Customized				