

CWDM Device & Module

Description



CWDM device & module is based on the thin film filter technology, which can let two or more different optical wavelength transmit respective signal in one optical fiber, or separate the multiplex signals.

Feature

- High channel isolation, low insertion loss
- Low cost, small size
- High stability and reliability
- Material meet RoHs
- Meet GR 1209, GR 1221 requirement

Application

- Metro networks
- Optical add/drop multiplexing
- CATV system

Specification

Parameter	Unit	Min	Typical	Max
Working Wavelength Range	nm	1260~1630		
Channel Wavelength	nm	ITU Standard (1271,1291,...1591,1611) Or(1270, 1290, ... 1590, 1610)		
Passband Width	nm	±7.0		
Channel Spacing	nm	20		
Pass Channel Insertion Loss	dB	-	-	0.6
Reflection Channel Loss	dB	-	-	0.4
Ripple	dB		-	0.3
Adjacent Pass Channel Isolation	dB	30	-	-
Non-adjacent Pass Channel Isolation	dB	45	-	-
Isolation of Pass Channel @ Reflection Port	dB	13	-	-
Directivity	dB	50	-	-
Return Loss	dB	45	-	-
Polarization Dependent Loss	dB	-	-	0.1
Polarization Mode Dispersion	ps	-	-	0.1
Maximum Optical Power	mW	500		
Operating Temperature Range	°C	-5~+70		
Storage Temperature Range	°C	-40~85		
Optical fiber type	-	Corning SMF 28e+ or equal(customized)		
Optical fiber length	m	≥1.0(customized)		
Package dimension	mm	All glass for bare fiber type Ø4.0x26 Steel tube for loose tube type Ø5.5x39		

Size



Order Information

813	X	XX	X	X	X	X
Type	Wavelength	ITUWavelength	Diameter	Connector	Size	Fiber Mode
CWDM	0= 1NN0 nm 1= 1NN1 nm	27=127Xnm ... 55=155Xnm	0=250um 1=900um 2= Other	0=None 1=LC/UPC 2=SC/UPC 3=FC/UPC 4=ST/UPC 5=Other	0= Ø4.0x26 1= Ø5.5x39 2= Ø3.2x26 3= Ø3.8x40 4=Other	1=G657A1 2=G657A2 3=G652D 6=Other

Examples:

8131270001 CWDM, 3Port, 1271nm, 250um, no connector, Ø4.0x26mm, G657A1

8130551111 CWDM, 3Port, 1550nm, 900um, LC/UPC, Ø5.5x39mm, G657A1