

CWDM

Descriptions

CWDM, the abbreviation of coarse wavelength division multiplexer, are based on proven thin-film filter technology and can be used in multi-channel CWDM module. CWDM module is cascaded with 1×2 CWDM components.

Features

- ▶ Wide passband
- ▶ Low Insertion Loss
- ▶ High Channel Isolation
- ▶ High Stability and Reliability
- ▶ Epoxy Free in Optical Path



Applications

- ▶ Optical Fiber Communication Systems
- ▶ Optical Devices
- ▶ Optical Amplifiers
- ▶ Fiber Lasers
- ▶ Wavelength Division Multiplexing Systems
- ▶ System Monitors



Specifications

Parameters		CWDM Components	CWDM Module		
		1x2	4Ch	8Ch	16Ch
Operating Wavelength(nm)		Customized; 1260~1620			
Wavelength (nm)		1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411,1431 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611			
Insertion Loss(dB)	Transmission	≤0.6(@1260~1620)	<1.8	<2.5	<3.5
	Reflection	<0.6(@1260~1620) ≤0.4(@1260~1460 or 1460~1620)			
Insertion Loss Thermal Stability(dB/℃)		≤0.005			
Channel Space(nm)		20			
Channel Bandwidth (nm)		λc ± 6.5			
Channel Flatness(dB)		≤0.4			
PMD(ps)		≤0.1			
Isolation(dB)	Transmission	≥40			
	Reflection	≥20			
Return Loss(dB)		>50			
Directivity(dB)		≥50			
Power handling(mW)		≤500			
Operating Temperature(℃)		-20 ~ +70			

Storage Temperature(°C)	-40 ~ +85			
Package Size(mm)	Φ5.5× L34 Stainless Steel Tube	100×80×10	LGX	1U

Remark: The above specification is without connector.

with connectors:0.3dB higher for IL,5dB lower for RL.

Ordering Information

CWDM – A – B – C – D – E – F – G – H – I		
A	For Module	M=Mux, D=Demux
B	Port Number	1x2, 1x3, 1x4, 1x8, 1x16
C	Transmission Wavelength	1471, 1491, 1511, 1531, 1551, 1571, 1591...T1471~1511 etc
D	Operating Wavelength	H=1460~1620nm,F=1260~1620nm,S=1260~1460nm,O=Other
E	Pigtail Type	B=250um bare fiber, 0.9=0.9mm loose tube, 2.0= 2.0mm loose tube, 3.0=3.0mm loose tube etc
F	Fiber Type	SMF-28e, SMF-28e XB, Others.
G	Connector Type	N=None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC, etc
H	Package Size	5.5x34mm, 100×80×10mm, Others.
I	Fiber length	005=0.5m, 010=1.0m, etc
For example: CWDM –M- 1x4-1551-H-0.9-SMF-28e-FC/APCx5-100x80x10-010		