

CWDM Module

MAKE YOUR
OPTICAL NETWORKS
MORE RELIABLE



CWDM modules are based on thin film filter technology. The modules are assembled with a number of customer-specified channel filters, and would be integrated with taps and detectors for a complete CWDM solution. The products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

Features

- High demux channel isolation
- Low polarization dependent loss
- Flat and wide passband
- Excellent reliability

Applications

- Metro optical networks
- Access optical networks
- Enterprise networks

Specifications

Parameter	Unit	Value			
Channel Number		2	4	8	16
Central Wavelength		ITU-T Grid			
Passband@0.5dB	nm	≥ 14			
Passband	nm	$\lambda_{m} \pm 6.5$			
Passband Flatness	dB	≤ 0.5			
Insertion Loss(Typ.)	dB	1.4	1.6	1.8	4.3
Insertion Loss(Max.)	dB	1.8	2.0	2.5	5.0
Adjacent Channel Isolation	dB	≥ 30			
Non-adjacent Channel Isolation	dB	≥ 45			
Wavelength Thermal Stability	nm/°C	≤ 0.002			
Insertion Loss Thermal Stability	dB/°C	≤ 0.005	≤ 0.005	≤ 0.007	≤ 0.007
Return Loss	dB	≥ 45			
PMD	ps	≤ 0.10	≤ 0.10	≤ 0.15	≤ 0.15
PDL	dB	≤ 0.10	≤ 0.15	≤ 0.20	≤ 0.25
Directivity	dB	≥ 50			
Operation Temperature	°C	-5 ~ +65			
Storage Temperature	°C	-40 ~ +85			
Package	mm	88.9×50.8×8.3	120×80×13	130×87×13	150×115×13

Ordering information

CWDM							-		-		-		-		-		-	
Channel Space	Channel Number	Start Channel Number	Fiber Dia.	Fiber Length	Connector	Application Type												
20:20nm	2:2 channel 4:4 channel 8:8 channel 16:16 channel	1271、1291... (Refer to ITU channel table)	09: Φ0.9mm	0.5:0.5m customer specify	00:no connector FC,SC,LC,MU/ PC,UPC,APC	M: Mux D: Demux M/D:Mux and Demux												