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RAYCORE

Q3-S209 V3.1E

Specification of CWDM MUX/DEMUX
1x2/1x4/1x8/1x16 for 19" Rack Mount

Part Number: AWDC-Cxxx-xx000-00

Coarse Wavelength Division Multiplexing (CWDM) is a type of optical wavelength management device that are based on proven ultra low-loss thin-film filter (TFF) technology. It features small size, high reliability, high extensibility, simultaneous transmission of multi-wavelength. CWDM has gained prevalence in multi-wavelength digital transport architectures because it enables the use of very low cost un-cooled distributed feedback (DFB) laser transmitters. Moreover, their powering requirements are reduced and reliability is increased.

Raycore provides whole series of 1xN CWDM products that are tailored for specific applications. All products meet GR-1209-CORE, GR-1221-CORE and ITU-T G.694.2 requirements.

Features

- Low Insertion Loss
- High Isolation
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: From 1260nm to 1620nm
- Wide Operating Temperature: From -40°C to 85°C
- High Reliability and Stability

Applications

- CWDM System
- PON Networks
- CATV Links

Compliance

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS



Specifications

Parameters		1x2	1x4	1x8	1x16
Center Wavelength (nm)		ITU, ITU+1			
Pass-Band (nm)		ITU±6.5			
Operating Wavelength (nm)		1260~1620			
Channel Space (nm)		20			
Fiber Type		SMF-28e or customer specified			
IL (dB)		1.3	2.0	2.8	4.3
Isolation (dB)	Adjacent Channel	30			
	Non-Adjacent	50			
Ripple (dB)		0.3	0.4	0.5	0.5
PDL (dB)		0.2			
PMD (ps)		0.1			
RL (dB)		45			
Directivity (dB)		50			
Maximum Optical Power (mw)		500			
Operating Temperature (°C)		-40~85			
Storage Temperature (°C)		-40~85			
19" Rack mount Package		1RU High			



Ordering Information

Part Number	Description
AWDC-CM2x-xx000-00	1x2 CWDM MUX for 19" Rack Mount
AWDC-CD2x-xx000-00	1x2 CWDM DEMUX for 19" Rack Mount
AWDC-CM4x-xx000-00	1x4 CWDM MUX for 19" Rack Mount
AWDC-CD4x-xx000-00	1x4 CWDM DEMUX for 19" Rack Mount
AWDC-CM8x-xx000-00	1x8 CWDM MUX for 19" Rack Mount
AWDC-CD8x-xx000-00	1x8 CWDM DEMUX for 19" Rack Mount
AWDC-CMDx-xx000-00	1x16 CWDM MUX for 19" Rack Mount
AWDC-CDDx-xx000-00	1x16 CWDM DEMUX for 19" Rack Mount

AWDC-C **xx** **x** - **xx** 000-00

Option: A B

Option A: Connector Type (x)

Option B: CWDM Wavelength (xx), ex: **BJ** show is 1470nm to 1610nm (x8 channel).

Connectors	CWDM Channel #	
AWDC-C xx □	—	□□
000-00		
1: SC/PC	1: 1270nm	1: 1270nm
2: SC/APC	2: 1290nm	2: 1290nm
3: LC/PC	3: 1310nm	3: 1310nm
4: LC/APC	4: 1330nm	4: 1330nm
7: FC/PC	5: 1350nm	5: 1350nm
8: FC/APC	6: 1370nm	6: 1370nm
	7: 1390nm	7: 1390nm
	8: 1410nm	8: 1410nm
	9: 1430nm	9: 1430nm
	A: 1450nm	A: 1450nm
	B: 1470nm	B: 1470nm
	C: 1490nm	C: 1490nm
	D: 1510nm	D: 1510nm
	E: 1530nm	E: 1530nm
	F: 1550nm	F: 1550nm
	G: 1570nm	G: 1570nm
	H: 1590nm	H: 1590nm
	J: 1610nm	J: 1610nm
	XX: Customer specified	

