DK PHOTONICS
Optical Passive Components

1x2 CWDM Device (3 Ports)

Key Features

- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability
- Epoxy free on optical path

Applications

- Line monitoring
- WDM network
- Telecommunication
- Cellular Application
- Fiber Amplifier

1x2 CWDM Devices are based on thin film filter technology. CWDM technology provides the flexibility to increase capacity of existing fiber infrastructure by enabling multiple channels (wavelengths) over the same fiber cabling. Each channel carries data independently from each other, allowing network designers to transport different data rates and protocols for different customers or applications.

DK Photonics offers a full range of CWDM Mux/Demux and Optical Add Drop Multiplexer (OADM) units to suit all kinds applications and network solutions. Some most common ones are: Gigabit & 10G Ethernet, SDH/SONET, ATM, ESCON, Fiber Channel, FTTx and CATV.The products adopt hermetic package craft and environmental stability. CWDM can solve the shortage of fiber and transparent transmission of business, and reduce the cost of network building. With low-cost low power consumption and small compact, it is widely used in metro aggregation and access layer to do transmission on a short time.

Our CWDM Mux/Demux products provide up to 16-channel or even 18-channel Multiplexing on a single fiber. Standard CWDM Mux/Demux package type include: ABS box package, LGX package and 19" 1U rack-mount.

The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.

Package Dimension:

Common — Ø 5.50 ±0.10 — Pass
S/N:XXXXXXXX
Reflect — 35 ±0.50 — 55 ±0.10

*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

For more Info

Please contact us at:

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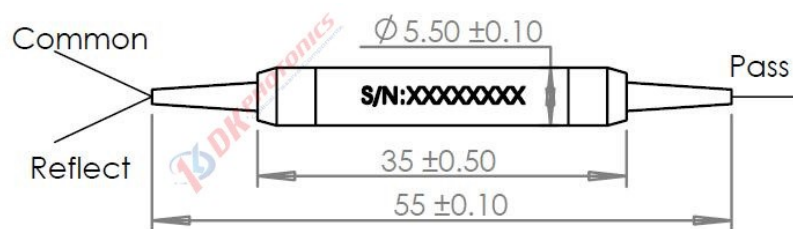
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Performance Specifications

Parameter		Unit	CWDM
Operating Wavelength		nm	Full Band: 1270nm to 1610nm; Standard: 1270nm to 1350nm or 1430nm to 1610nm
Center Wavelength		nm	1270,1290 or 1271,1291 etc.
Center Wavelength Accuracy		nm	± 0.5
Channel Spacing		GHz	20nm
Channel Pass band (@-0.5dB bandwidth)		nm	>13
Insertion Loss	Pass Channel	dB	≤0.6
	Reflection Channel	dB	≤0.4
Channel Ripple		dB	≤ 0.3
Isolation	Adjacent	dB	>30
	Non-adjacent	dB	>40
Insertion Loss Temperature Sensitivity		dB/°C	<0.005
Wavelength Temperature Shifting		nm/°C	<0.002
Polarization Dependent Loss		dB	<0.10
Polarization Mode Dispersion		ps	<0.10
Directivity		dB	>50
Return Loss		dB	>45
Maximum Power Handling		mW	300
Fiber Type		-	SMF-28e
Operating Temperature		°C	-10 ~ +75
Storage Temperature		°C	-40 ~ +85
Package Dimension		mm	Φ5.5 x L35

1.The above specification is without connector.

2. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

Order information   P/N: CWDM-1x2-①-②-③-④-⑤-⑥

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥
Wavelength	R- Wavelength	Fiber Type	Pigtails Diameter	Fiber Length	Connector
1270 nm 1290 nm … 1590 nm 1610 nm Or 1271 nm 1291 nm … 1591 nm 1611 nm	A: 1270~1610 B: 1270~1450 C: 1470~1610 D: 1271~1611 E: 1271~1451 F: 1471~1611	1: SMF-28e X: Others	25:250μm 90:900μm XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC ST: ST/PC XX: Others

Part Number Example: CWDM-1x2-1470-A-1--90-10-LP

Description: 1x2 CWDM Device(3 Ports),Center Wavelength 1270nm, Operating Wavelength 1270~1610nm,SMF-28e fiber, 0.9mm OD loose tube,1.0m length fiber pigtails, LC/PC connectors at all ports.

Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.