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Document No: PRO-WDM-001 AO

CWDM ***(Coarse wavelength division multiplexer)*** ***Specification***

<i>Amending record</i>	<i>Version</i>	<i>Amending content</i>	<i>Prepared By</i>	<i>Approved By</i>	<i>Date</i>
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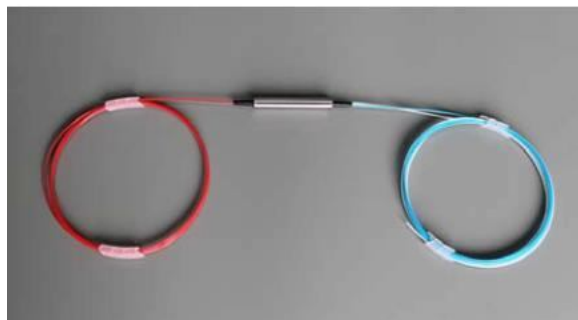
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1. Description

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
- ITU-T G.694.2



Specifications

1×2 CWDM Device

Parameters		Half band	Full band
Center wavelength (nm)		ITU, ITU+1	
Pass band (nm)		ITU±6.5、ITU±7.0、±7.5	
Operating wavelength (nm)		1460~1620	1260~1620
Channel Space (nm)		20	
Fiber Type		SMF-28e or customer specified	
IL (dB)	Transmission band	≤0.6	
	Reflection band	≤0.4	



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Isolation (dB)	Transmission Isolation within Adjacent Channel	≥ 30	
	Transmission Isolation within Non Adjacent Channel	≥ 50	≥ 45
	Reflection Isolation	≥ 15	
Ripple (dB)		≤ 0.3	
PDL (dB)		≤ 0.1	
PMD (ps)		≤ 0.1	
RL (dB)		≥ 45	
Directivity (dB)		≥ 50	
Maximum Optical Power (mw)		500	
Operating Temperature ($^{\circ}\text{C}$)		$-40 \sim 85$	
Storage Temperature ($^{\circ}\text{C}$)		$-40 \sim 85$	
Package Dimension (mm)		$\Phi 5.5 * L34$	
Package Dimension (mm) (0.9)		$\Phi 5.5 * L38$	

Note:

1. Specifications are without connectors.
2. Additional 0.2dB loss would be increased for one connector when Device is with connectors.

1×N CWDM Mux/Demux Module

Parameters		1x2	1x4	1x8	1x16
Module Type		Mux or Demux or OADM			
Center Wavelength (nm)		ITU, ITU+1			
Pass band (nm)		ITU ± 6.5 、ITU ± 7.0 、 ± 7.5			
Operating Wavelength (nm)		1460~1620 or 1260~1620			
Channel Space (nm)		20			
Fiber Type		SMF-28e or customer specified			
IL (dB)		≤ 1.0	≤ 1.5	≤ 2.5	≤ 4.5
Isolation (dB)	Adjacent Channel	≥ 30			
	Non-Adjacent Channel	≥ 50 (for Operating Wavelength: 1460~1620 CWDM Device) ≥ 45 (for Operating Wavelength: 1260~1620 CWDM Device)			
Ripple (dB)		≤ 0.5			
PDL (dB)		≤ 0.2			
PMD (ps)		≤ 0.2			
RL (dB)		≥ 45			
Directivity (dB)		≥ 50			
Maximum Optical Power (mw)		500			



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Operating Temperature (°C)	-40~85
Storage Temperature (°C)	-40~85
BOX Package (mm)	100*80*10 or 140*115*18
LGX Package	1U, 2U
19'' Rack mount Package	1U

Note:

1. Specifications are without connectors.
2. Additional 0.2dB loss would be increased for one connector when Device is with connectors.

2. Ordering information

2.1 WDM Device

WDM	xx	x	xx	x	xx	x	x	x
	Port Configu ration	WDM Type	Center Wavelength	Fiber Type	Output Fiber Length	COM Connector	Pass Connector	Reflection Connector
WDM	01=1*1	C=CWDM 1460~1620	27=1270nm	B=250um	10=1.0m	0=None	0=None	0=None
D=	02=1*2	Q=CWDM 1260~1620	31=1310nm	L=900um loose tube	15=1.5m	1=FC/UPC	1=FC/UPC	1=FC/UPC
			48=1480nm	T=900um tight buffer	20=2.0m	2=FC/APC	2=FC/APC	2=FC/APC
			49=1490nm			3=SC/UPC	3=SC/UPC	3=SC/UPC
						4=SC/APC	4=SC/APC	4=SC/APC
						5=LC/UPC	5=LC/UPC	5=LC/UPC
						6=LC/APC	6=LC/APC	6=LC/APC
			xx=Customized		xx=Customized	xx=Customized	x=Customized	x=Customized



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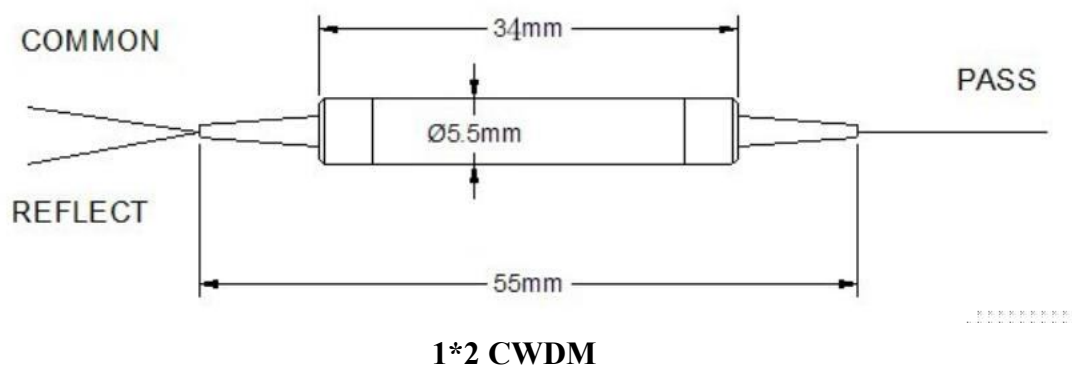
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2.2 WDM Module

WDM	xx	x	x	xx	xx	x	x	x	x
	Port Configur ati on	WDM Type	Module Type	Initial Wavelength	Package Type	Fiber Type	Output Fiber Length	Input Connector	Output Connector
WDM	01=1*1	C=CWDM 1460~1620	M=Mu x	27=1270nm	PS=100*80* 10	9= 900um loose tube	10=1.0m	0=None	0=None
M= Module	02=1*2	Q=CWDM 1260~1620	D= Demux	31=1310nm	PL= 140*115 *18	2=2.0mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC
	03=1*3			48=1480nm	LX=LGX box metal	3=3.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC
				49=1490nm	19=19"1U			3=SC/UPC	3=SC/UPC
	16=1*16							4=SC/APC	4=SC/APC
								5=LC/UPC	5=LC/UPC
								6=LC/APC	6=LC/APC
				xx= Customized	xx= Customized	x= Customized	x= Customized	x= Customized	x= Customized

3. Packaging





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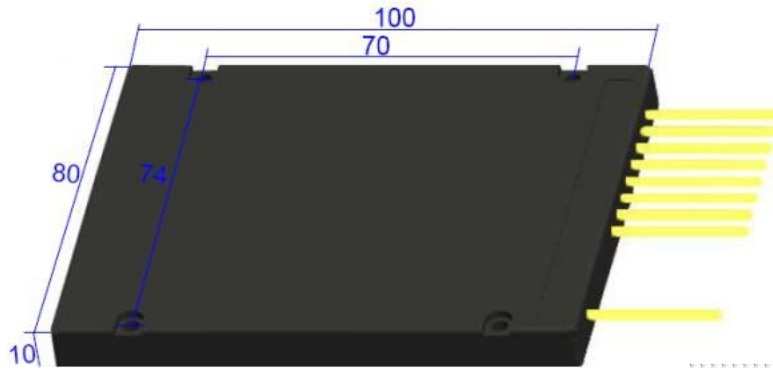
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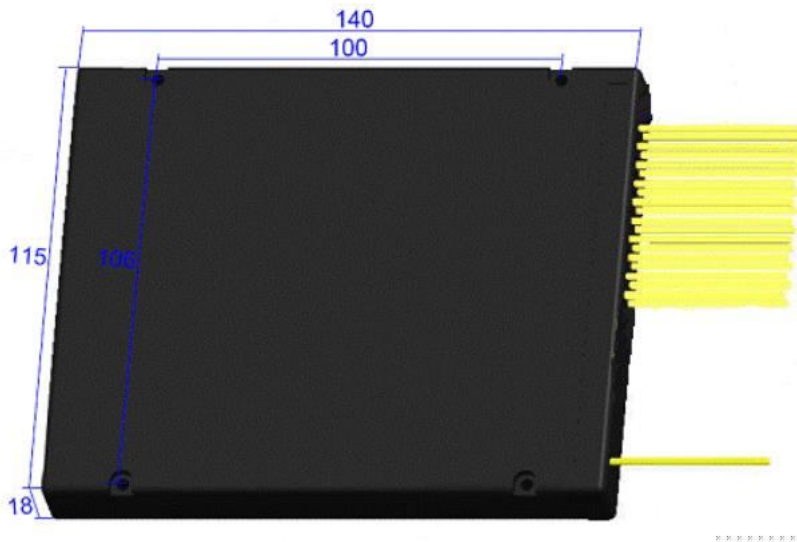
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1*8 CWDM Package Outline



1*18 (9-18) CWDM Package Outline