



Prostal Limited.

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Document No: PRO-WDM-002 AO

DWDM *(Dense wavelength division multiplexer)* *description*

<i>Amending record</i>	<i>Version</i>	<i>Amending content</i>	<i>Prepared By</i>	<i>Approved By</i>	<i>Date</i>
	<i>A/O</i>	<i>First issue</i>	<i>weiqiang xiao</i>	<i>Liusc</i>	<i>2014-09-30</i>



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1. Description

Features

Low Insertion Loss

High Isolation

Low PDL

Compact Design

Good channel-to-channel uniformity

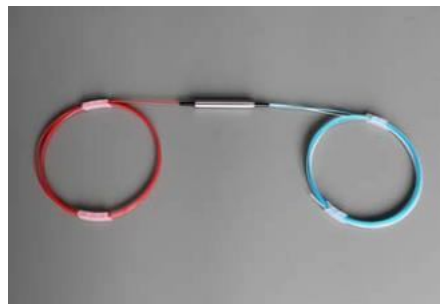
Wide Operating Wavelength:

From 1500nm to 1600nm

Wide Operating Temperature:

From -40°C to 85°C

High Reliability and Stability



Applications

DWDM System DWDM

Long haul/Metro networks



Compliance

Telcordia GR-1209-CORE-2001

Telcordia GR-1221-CORE-1999

RoHS

ITU-T

G.694.2



Specifications

1×2 DWDM Device



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Parameters			
Center wavelength (nm)		ITU	
Operating wavelength (nm)		1500~1600	
Channel Space (GHz)		100	200
Passband (nm)		ITU $\pm$ 0.11	ITU $\pm$ 0.25
Fiber Type		SMF-28e or customer specified	
IL (dB)	Transmission band	$\leq$ 0.8	
	Reflection band	$\leq$ 0.4	
Isolation (dB)	Adjacent Channel Isolation	$\geq$ 28	$\geq$ 30
	Non-Adjacent Channel Isolation	$\geq$ 45	
	Reflection Isolation	$\geq$ 13	$\geq$ 15
Ripple (dB)		$\leq$ 0.3	
PDL (dB)		$\leq$ 0.1	
PMD (ps)		$\leq$ 0.1	
RL (dB)		$\geq$ 45	
Directivity (dB)		$\geq$ 50	
Maximum Optical Power (mw)		500	
Operating Temperature (°C)		-40~85	
Storage Temperature (°C)		-40~85	
Package Dimension (mm) (250um fiber)		Φ 5.5*L34	
Package Dimension (mm) (900um fiber)		Φ 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.



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1×N DWDM Mux/Demux Module

Parameters		1x2	1x4	1x8	1x16
Module Type		Mux or Demux			
Center Wavelength (nm)		ITU			
Channel Space		100GHz or 200GHz			
Passband (nm)		ITU±0.11(100GHz), ITU±0.25(200GHz)			
Operating Wavelength (nm)		1500~1600			
Fiber Type		SMF-28e or customer specified			
IL (dB)		1.2	1.7	2.7	4.7
Isolation (dB)	Adjacent Channel	≥28 (100GHz), ≥30 (200GHz),			
	Non-Adjacent Channel	≥45			
Ripple (dB)		≤0.5			
PDL (dB)		≤0.2			
PMD (ps)		≤0.2			
RL (dB)		≥45			
Directivity (dB)		≥50			
Maximum Optical Power (mw)		500			
Operating Temperature (°C)		-40~85			
Storage Temperature (°C)		-40~85			
BOX Package (mm) ABS		100*80*10 OR 140*115*18			
LGX Package LGX		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.



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2. Ordering information

WDM Device

WDM D	xx	x	xx	x	xx	x	x	x
	Port Configuration	WDM Type	Center Wavelength	Fiber Type	Output Fiber Length	COM Connector	Pass Connector	Reflection Connector
WDM	01=1*1	D=DWDM	01=1577.025	B=250um	10=1.0m	0=None	0=None	0=None
D=Device	02=1*2		02=1576.196	L=900um loose tube	15=1.5m	1=FC/UPC	1=FC/UPC	1=FC/UPC
				T=900um tight buffer	20=2.0m	2=FC/APC	2=FC/APC	2=FC/APC
			69=1522.562			3=SC/UPC	3=SC/UPC	3=SC/UPC
			70=1521.789			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	x=Customized	x=Customized	x=Customized

WDM Module

WDM M	xx	x	x	xx	xx	x	x	x	x
	Port Configuration	WDM Type	Module Type	Initial Wavelength	Package Type	Fiber Type	Output Fiber Length	Input Connector	Output Connector
WDM	01=1*1	D=DWDM	M=Mux	01=1577.025	PS=100*80*10	9=900um loose tube	10=1.0m	0=None	0=None
M=Module	02=1*2		D=Demux	02=1576.196	PL=140*115*18	2=2.0mm loose tube	15=1.5m	1=FC/UPC	1=FC/UPC
	03=1*3				LX=LGX box metal	3=3.0mm loose tube	20=2.0m	2=FC/APC	2=FC/APC
				69=1522.562	19=19" 1U			3=SC/UPC	3=SC/UPC
	16=1*16			70=1521.789				4=SC/APC	4=SC/APC
								5=LC/UPC	5=LC/UPC
	32=1*32							6=LC/APC	6=LC/APC
					xx=Customized	x=Customized	x=Customized	x=Customized	x=Customized



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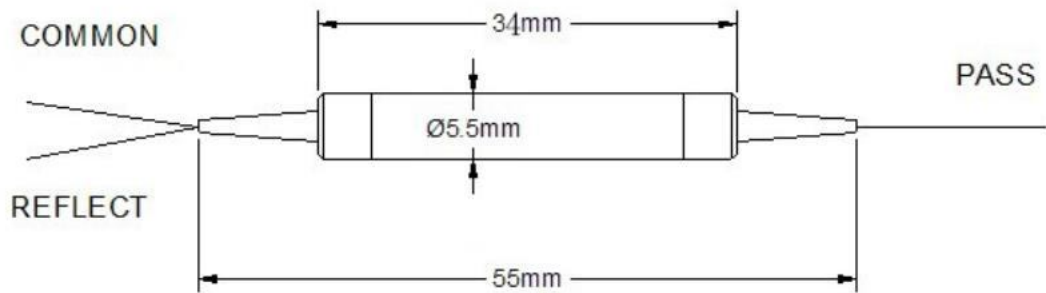
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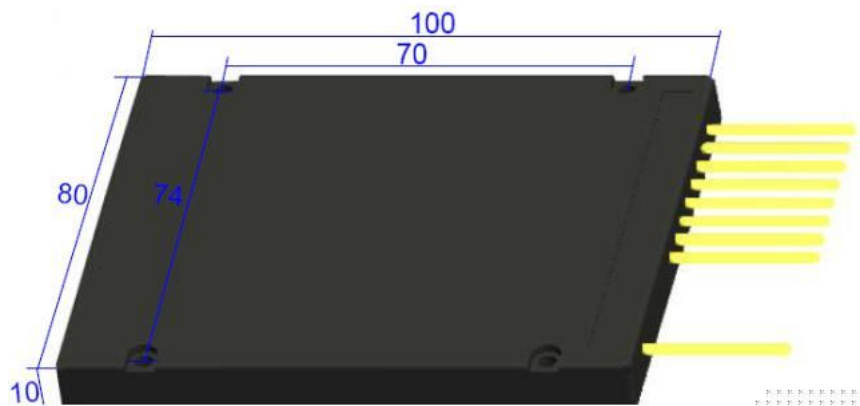
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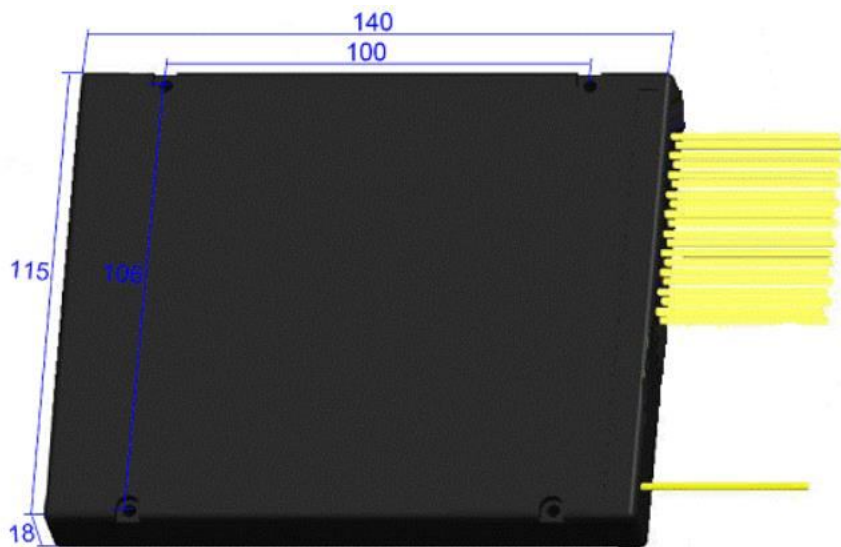
3. Package Outline



1*2 DWDM



≤1*8 DWDM Package Outline



1*18 (9-18)DWDM Package Outline