

## FWDM Module Spec

Filter wave divider (FWDM) uses high-performance film filters to ensure high-quality optical performance, stability and reliability. Filter wave division multiplexer can achieve 1310nm, 1550nm two-window optical signal of the combined wave and split wave, so that a single fiber transmission capacity multiplied, but also to achieve fiber two-way communication, widely used in fiber upgrade, expansion or introduction of integrated new services, such as radio and television, telecommunications, Internet and so on.

### Features

- Low Insertion Loss
- Light Road is glue-free
- High isolation
- High stability and reliability



### Application

- Wave division multiplexing system
- Metro network
- CATV system

### Performance Specifications

Parameters	Specifications			Unit			
	FWDM4/35	FWDM5/34	FWDM34/5				
Transmission Wavelength	1480-1500	1540-1560	1260-1360&1480-1500	nm			
Reflection Wavelength1	1260-1360	1260-1360	1540-1560	nm			
Reflection Wavelength2	1540-1560	1480-1500					
Insertion Loss <sup>1</sup>	Transmission	≤0.6		dB			
	Reflection	≤0.4		dB			
Isolation	Transmission	≥30		dB			
	Reflection	≥15		dB			
Insertion Loss Temperature Sensitivity	≤0.5			dB			
Ripple	≤0.5			dB			
Wavelength Temperature Shifting	≤0.002			nm/°C			
Polarization Dependent Loss	≤0.2			dB			
Polarization Mode Dispersion	≤0.1			ps			
Directivity	≥50			dB			
Return Loss	≥45			dB			
Maximum Power Handling	300			mW			
Operating Temperature	-10~+70			°C			
Storage Temperature	-40~+85			°C			
Package size	Φ5.5×L38			mm			
	ABSL90×L20×H10						

\*Notes: 1. Insertion Loss tested without connector.

**Order information:**

**FWDM PN: FWDM-XXXXXXXX-XX (FWDM+9 Code+2 Serial Number)**

FWDM	X	XXX	X	X	X	X	X	X	X	XX
	Type	Operate Wavelength	Package Type	Fiber Jacket	Fiber Length	Connector			Channe	
<b>1</b>	<b>FWDM</b>	<b>131</b>	T13 R14/15	<b>1</b> Glass: 4.0×25	<b>0</b> 250um Bare Fiber	<b>0</b> 0.5m	<b>0</b> none	<b>1</b>	1CH	
<b>2</b>	Red Blue	<b>149</b>	T14 R13/15	<b>2</b> Glass: 3.2×25	<b>1</b> 0.9mm Loose	<b>1</b> 1.0m	<b>1</b> SC/UPC	<b>2</b>	2CH	
<b>3</b>	GPON WDM	<b>155</b>	T15 R13/14	<b>3</b> Steel: 5.5×34	<b>2</b> 2.0mm Loose	<b>2</b> 1.5m	<b>2</b> SC/APC	<b>3</b>	3CH	
<b>4</b>	LAN WDM	<b>161</b>	T16 R13/14/15	<b>4</b> Steel: 5.5×38	<b>3</b> 3.0mm Loose	<b>3</b> 2.0m	<b>3</b> FC/UPC	<b>4</b>	4CH	
<b>5</b>	CWDM 4skip0	<b>340</b>	T13/14 R15	<b>5</b> Steel: 3.8×34	<b>4</b> 0.9mm Tight Tube	<b>4</b> 2.5m	<b>4</b> FC/APC	<b>5</b>	5CH	
<b>6</b>	CWDM 8skip0	<b>350</b>	T13/14/15 R16	<b>A</b> ABS: 90×20×10	<b>5</b> 2.0mm Tight Tube	<b>5</b> 3.0m	<b>5</b> LC/UPC	<b>6</b>	6CH	
<b>7</b>	CWDM 10skip0	<b>450</b>	T14/15 R13	<b>B</b> ABS: 80×58×8	<b>6</b> 3.0mm Tight Tube	<b>6</b> 3.5m	<b>6</b> LC/APC	<b>7</b>	7CH	
<b>8</b>	CWDM	<b>550</b>	T15 R13/14/16	<b>C</b> ABS: 80×60×12	<b>M</b> MM Fiber	<b>7</b> 0.7m	<b>7</b> ST/UPC	<b>8</b>	8CH	
<b>9</b>	CWDM	<b>831</b>	850/1310	<b>D</b> ABS: 100×45×10	<b>P</b> PM Fiber	<b>8</b> 1.2m	<b>8</b> E2000	<b>9</b>	9CH	
<b>A</b>	CWDM 16skip0	<b>904</b>	980/1040	<b>E</b> ABS: 100×80×10	<b>S</b> Special	<b>9</b> 2.7m	<b>9</b> MPO	<b>A</b>	10CH	
<b>B</b>	DWDM 2skip0	<b>906</b>	980/1060	<b>F</b> ABS: 120×80×18		<b>S</b> Special	<b>S</b> Special	<b>B</b>	11CH	
<b>C</b>	DWDM 4skip0	<b>955</b>	980/1550	<b>G</b> ABS: 140×114×18				<b>C</b>	12CH	
<b>D</b>	DWDM 4skip1	<b>536</b>	1536	<b>H</b> Metal Box				<b>D</b>	13CH	
<b>E</b>	DWDM 6skip0	<b>554</b>	1554	<b>J</b> Insert Box				<b>E</b>	14CH	
<b>F</b>	DWDM 7skip1	<b>555</b>	1555	<b>K</b> Rackmount				<b>F</b>	15CH	
<b>G</b>	DWDM 8skip0	<b>556</b>	1556	<b>L</b> LGX Box				<b>G</b>	16CH	
<b>H</b>	DWDM 8skip1	<b>270</b>	CWDM 1270	<b>M</b> Pallet Type				<b>H</b>	17CH	
<b>J</b>	DWDM 9skip1	<b>271</b>	CWDM 1271	<b>S</b> Special				<b>J</b>	18CH	
<b>S</b>	Special	<b>C21</b>	DWDM C21					<b>K</b>	19CH	
		<b>H20</b>	DWDM H20					<b>L</b>	20CH	
		...	...					<b>S</b>	Special	
		<b>S</b>	Special							