

# 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:**

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