

MWDM Module Spec



China Mobile proposed an innovative 5G pre-transmission Open-WDM/MWDM million case, will be 5G forward transmission reuse low-cost 25G CWDM propulsion 12 wavelength system, using TEC offset to achieve 12 wavelengths, and has wavelength non-equal spacing characteristics, combined with the optical layer tuning top to achieve the optical module OAM mechanism, to meet the 5G forward 10km main scene budget link, adapt to the current 5G commercial urgency.

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
	6CH	12CH	
Operating Wavelength	1260-1620		nm
Channel Wavelength	1267.5/1274.5/1287.5/1294.5/1307.5/1314.5/ 1327.5/1334.5/1347.5/1354.5/1367.5/1374.5		nm
Channel Spacing	7 or 13		nm
Channel Passband(@-1dB bandwidth)	≥±2.5		nm
Insertion Loss ¹	≤2.0	≤3.2	dB
Isolation	Adjacent	≥30	dB
	Non-adjacent	≥40	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 Handing	300		mW
Operating Temperature	-10~+70		°C
Storage Temperature	-40~+85		°C
Package size	L100×L80×H10	L120×L80×H18	mm
	Insert box L130×L100×H24		

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MWDM Module Spec



Order information:

MWDM ModulePN: MWDM-XXXXXXXX-XX (MWDM+9 Code+2 Serial Number)

MWDM	X	XXX	X	X	X	X	X	X	XX					
	Channel	Start Wavelength	Package Type	Fiber Jacket	Fiber Length	Connector	Type							
1	1CH	267	1267.5	A	ABS:90×20×10	0	250um Bare Fiber	0	0.5m	0	none	M	Mux	
2	2CH	274	1274.5	B	ABS:80×58×8	1	0.9mm Loose	1	1.0m	1	SC/UPC	D	Demux	
3	3CH	287	1287.5	C	ABS:80×60×12	2	2.0mm Loose	2	1.5m	2	SC/APC	A	Mux+Demux	S
4	4CH	294	1294.5	D	ABS:100×45×10	3	3.0mm Loose	3	2.0m	3	FC/UPC	B	(M)+UPG	N
5	5CH	E	ABS:100×80×10	4	0.9mm Tight Tube	4	2.5m	4	FC/APC	C	(D)+UPG	
6	6CH	347	1347.5	F	ABS:120×80×18	5	2.0mm Tight Tube	5	3.0m	5	LC/UPC	E	(M)+TAP+UPG	
7	7CH	354	1354.5	G	ABS:140×114×18	6	3.0mm Tight Tube	6	3.5m	6	LC/APC	F	(D)+TAP+UPG	
8	8CH	367	1367.5	H	Metal Box	M	MM Fiber	7	0.7m	7	ST/UPC	S	Special	
9	9CH	374	1374.5	J	Insert Box	P	PM Fiber	8	1.2m	8	E2000			
A	10CH	00S	Special	K	Rackmount	S	Special	9	2.7m	9	MPO			
B	11CH			L	LGX Box			S	Special	S	Special			
C	12CH			M	Pallet Type									
				S	Special									



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