

Low Loss CWDM 2ch,4ch, 8ch,16ch

Low Loss Coarse Wavelength Division Multiplexer (CWDM) module are cascaded with 1×2 CWDM components. The module features wide pass band, low insertion loss, high channel isolation, high stability and reliability.

Features

- > Wide pass band
- > High isolation
- > Low insertion loss
- > High stability and reliability

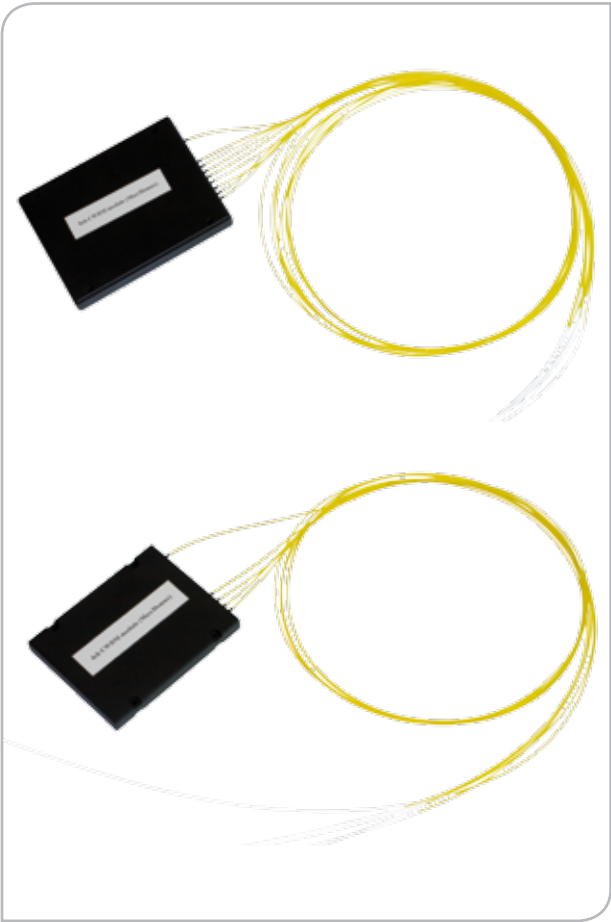
Applications

- > CWDM systems

Technical Specification

Parameter		2 Channels	4 Channels	8 Channels	16 Channels
Central wavelength (nm)		1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411,1431 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611			
Insertion loss (dB)		≤0.6	≤1.8	≤2.5	≤3.5
Channel space (nm)		20			
Channel bandwidth (nm)		$\lambda_c \pm 6.5$			
Channel flatness (dB)		≤0.4			
Channel uniformity (dB)		≤1.0			
Isolation (dB)	Demux adjacent channel	≥30			
	Demux non-adjacent channel	≥40			
	Mux or Reflection channel	≥15			
Directivity (dB)		≥55			
Return loss (dB)		≥50			
PDL (dB)		≤0.15			
PMD (ps)		≤0.1			
Wavelength thermal stability (nm/ °C)		≤0.003			
Insertion loss thermal stability (dB/ °C)		≤0.005			
Power handling (mW)		≤500			
Operating temperature (°C)		0 ~ +70			
Storage temperature (°C)		-40 ~ +85			
Dimensions (mm)		φ 5.5x34	100×80×10	125×96×16	141x115x18

*The above specification is without connectors
**Other specifications can be supplied to customer requirements



Part Number Generator

CWDM	Configuration	Start Wavelength	End Wavelength	Package Style	Cable Type	Input Connector	Output Connector	Lead Length Input	Lead Length Output
	2 2 channel	27 1271nm	27 1271nm	A ABS box	0 250µm	A None	A None	1 1m	1 1m
	4 4 channel	29 1291nm	29 1291nm		1 900µm	B E2000/ UPC	B E2000/ UPC	2 1.5m	2 1.5m
	8 8 channel	31 1311nm	31 1311nm		2 2mm	C E2000/ APC	C E2000/ APC	3 2m	3 2m
	16 16 channel	33 1331nm	33 1331nm		3 3mm	D FC/UPC	D FC/UPC	4 2.5m	4 2.5m
		35 1351nm	35 1351nm			E FC/APC	E FC/APC	5 3m	5 3m
		37 1371nm	37 1371nm			F LC/UPC	F LC/UPC		
		43 1431nm	43 1431nm			G LC/APC	G LC/APC		
		45 1451nm	45 1451nm			H MU/APC	H MU/APC		
		47 1471nm	47 1471nm			I MU/UPC	I MU/UPC		
		49 1491nm	49 1491nm			J SC/UPC	J SC/UPC		
		51 1511nm	51 1511nm			K SC/APC	K SC/APC		
		53 1531nm	53 1531nm			L ST/UPC	L ST/UPC		
		55 1551nm	55 1551nm						
		57 1571nm	57 1571nm						
		59 1591nm	59 1591nm						
		61 1611nm	61 1611nm						

Example Part Number

CWDM	8	35	53	A	1	G	G	1	1
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This part number generator has created an:
8 channel to CWDM channel spacing 20nm from 1351 to 1531 with 900µm, 1 metre LC pigtails