DATASHEET

FibreFab™ Fibre Optic Connectivity Solutions

Filter Type WDM 1310-1550 1480-1550 850- 1310

Filter type WDM is based on proven thin-film filter technology. This WDM is widely used in fibre optical communication systems and EDFA where flat and broad operating bands are needed.

Features

- Broad operating band
- High channel isolation
- High stability and reliability

Applications

- EDFA
- WDM systems
- CATV

Specification

PARAMETER	1310/1550	1480/1550	850/1310
Operating wavelength (nm)	1310 and 1550	1480 and 1550	850 and 1310
Operating bandwidth (nm)	±40	±20	±50
Transmission insertion loss (dB)	≤0.6	≤0.6	≤0.7
Reflection insertion loss (dB)	≥ 50	≤0.4	≤0.6
Transmission channel isolation (dB)	≥35	≥30	≥30
Reflection channel isolation (dB)	≥15	≥15	≥15
Channel flatness (dB)	≤0.4	≤0.2	≤0.4
Directivity (dB)	≥55	≥55	≥38
Return loss (dB)	≥50	≥50	≥30
PDL (dB)	≤0.1	≤0.1	≤0.1
Wavelength thermal stability (nm/ °C)	≤0.003	≤0.003	≤0.003
Insertion loss thermal stability (dB/ °C)	≤0.005	≤0.005	≤0.005
Power handling (mW)	≤500	≤500	≤500
Operating temperature (°C)	0 ~ +70	0 ~ +70	0 ~ +70
Storage temperature (°C)	-40 ~ +85	-40 ~ +85	-40 ~ +85
Dimensions (mm)	Φ5.5× L34	Φ5.5× L34	Φ5.5× L34
Fibre type	Corning SMF-28e	Corning SMF-28e	50/125 or 62.5/125 Multi-Mode Fibre

Ordering Information

	Configuration		Wavelength		Cable Type		Package Style		Input Connectors		Output Connectors		Lead Length Input		Lead Length Output	
FISW	102	1 x 2	A	1310nm / 1550nm	0	250µm	A	ABS Box	A	None	A	None	1	1 metre	1	1 metre
			B	1480nm / 1550nm	1	900µm	B	Steel Pipe	B	E2000/UPC	B	E2000/UPC	1.5	1.5 metre	1.5	1.5 metre
			C	850nm / 1310nm	2	2mm cable			C	E2000/APC	C	E2000/APC	2	2 metre	2	2 metre
			D	1310nm / 1490nm / 1550nm	3	3mm cable			D	FC/UPC	D	FC/UPC	2.5	2.5 metre	2.5	2.5 metre
									E	FC/APC	E	FC/APC	3	3 metre	3	3 metre
									F	LC/UPC	F	LC/UPC				
									G	LC/APC	G	LC/APC				
									H	MU/APC	H	MU/APC				
									I	MU/UPC	I	MU/UPC				
									J	SC/UPC	J	SC/UPC				

Example Part Number

FISW	102	C	2	A	B	B	1	1

This part number has created a filter type 1x2 WDM at 850 & 1310nm with 1m of 2mm E2000 pigtails in an ABS Box.

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