

Filter Type WDM (1310/1550, 1480/1550, 850/1310)

V.3.2

Description

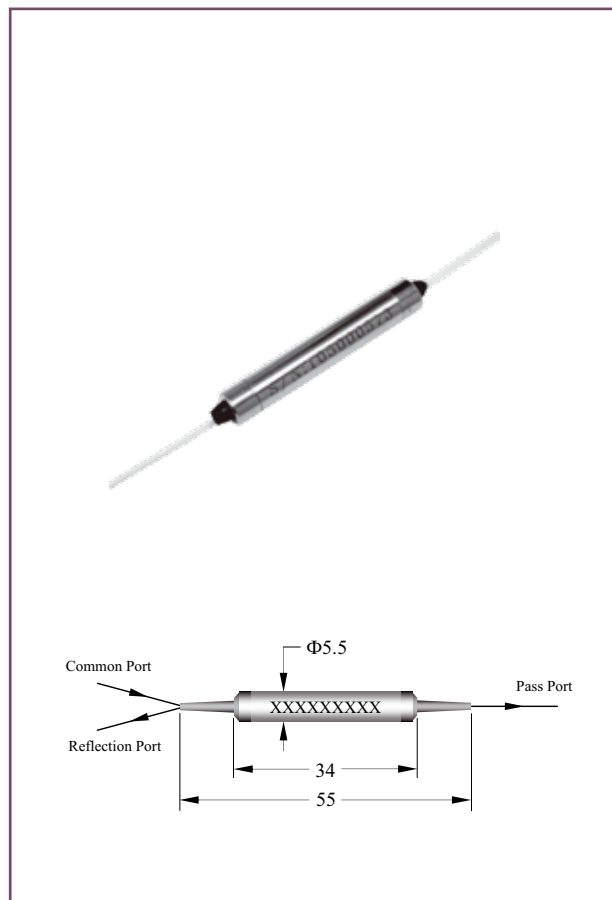
Filter type WDM is based on proven thin-film filter technology. This WDM is widely used in fibre optical communication systems and EDFA where flat and broad operating bands are needed.

Features

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

Applications

- ▶ **EDFA**
- ▶ **WDM systems**
- ▶ **CATV**



Technical 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 | ≥38 |
| Return loss (dB) | | ≥50 | ≥30 |
| PDL (dB) | | ≤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) | | Φ5.5× L34 | |
| Fibre type | Corning SMF-28e | | 50/125 or 62.5/125 Multi-Mode Fibre |



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Part Number Generator

| Type | Configuration | Wavelength | Cable Type | Package Style | Input Connectors | Output Connectors | Lead length input | Lead length output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| FISW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filter WDM | 102 1x2 | <table border="1"> <tr> <td>A</td> <td>1310nm/1550nm</td> </tr> <tr> <td>B</td> <td>1480nm/1550nm</td> </tr> <tr> <td>C</td> <td>850nm/1310nm</td> </tr> </table> | A | 1310nm/1550nm | B | 1480nm/1550nm | C | 850nm/1310nm | <table border="1"> <tr> <td>0</td> <td>250µm</td> </tr> <tr> <td>1</td> <td>900µm</td> </tr> <tr> <td>2</td> <td>2mm cable*</td> </tr> <tr> <td>3</td> <td>3mm cable*</td> </tr> </table> | 0 | 250µm | 1 | 900µm | 2 | 2mm cable* | 3 | 3mm cable* | <table border="1"> <tr> <td>A</td> <td>ABS Box</td> </tr> <tr> <td>B</td> <td>Steel Pipe</td> </tr> </table> | A | ABS Box | B | Steel Pipe | <table border="1"> <tr> <td>A</td> <td>None</td> </tr> <tr> <td>B</td> <td>E2000/UPC</td> </tr> <tr> <td>C</td> <td>E2000/APC</td> </tr> <tr> <td>D</td> <td>FC/UPC</td> </tr> <tr> <td>E</td> <td>FC/APC</td> </tr> <tr> <td>F</td> <td>LC/UPC</td> </tr> <tr> <td>G</td> <td>LC/APC</td> </tr> <tr> <td>H</td> <td>MU/APC</td> </tr> <tr> <td>I</td> <td>MU/UPC</td> </tr> <tr> <td>J</td> <td>SC/UPC</td> </tr> <tr> <td>K</td> <td>SC/APC</td> </tr> <tr> <td>L</td> <td>ST/UPC</td> </tr> </table> | A | None | B | E2000/UPC | C | E2000/APC | D | FC/UPC | E | FC/APC | F | LC/UPC | G | LC/APC | H | MU/APC | I | MU/UPC | J | SC/UPC | K | SC/APC | L | ST/UPC | <table border="1"> <tr> <td>A</td> <td>None</td> </tr> <tr> <td>B</td> <td>E2000/UPC</td> </tr> <tr> <td>C</td> <td>E2000/APC</td> </tr> <tr> <td>D</td> <td>FC/UPC</td> </tr> <tr> <td>E</td> <td>FC/APC</td> </tr> <tr> <td>F</td> <td>LC/UPC</td> </tr> <tr> <td>G</td> <td>LC/APC</td> </tr> <tr> <td>H</td> <td>MU/APC</td> </tr> <tr> <td>I</td> <td>MU/UPC</td> </tr> <tr> <td>J</td> <td>SC/UPC</td> </tr> <tr> <td>K</td> <td>SC/APC</td> </tr> <tr> <td>L</td> <td>ST/UPC</td> </tr> </table> | A | None | B | E2000/UPC | C | E2000/APC | D | FC/UPC | E | FC/APC | F | LC/UPC | G | LC/APC | H | MU/APC | I | MU/UPC | J | SC/UPC | K | SC/APC | L | ST/UPC | <table border="1"> <tr> <td>1</td> <td>1m</td> </tr> <tr> <td>1.5</td> <td>1.5m</td> </tr> <tr> <td>2</td> <td>2m</td> </tr> <tr> <td>2.5</td> <td>2.5m</td> </tr> <tr> <td>3</td> <td>3m</td> </tr> </table> | 1 | 1m | 1.5 | 1.5m | 2 | 2m | 2.5 | 2.5m | 3 | 3m | <table border="1"> <tr> <td>1</td> <td>1m</td> </tr> <tr> <td>15</td> <td>1.5m</td> </tr> <tr> <td>2</td> <td>2m</td> </tr> <tr> <td>25</td> <td>2.5m</td> </tr> <tr> <td>3</td> <td>3m</td> </tr> </table> | 1 | 1m | 15 | 1.5m | 2 | 2m | 25 | 2.5m | 3 | 3m |
| A | 1310nm/1550nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 1480nm/1550nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 850nm/1310nm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 250µm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 900µm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2mm cable* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3mm cable* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | ABS Box | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | Steel Pipe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | E2000/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | E2000/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | FC/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | FC/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | LC/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | LC/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | MU/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | MU/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | SC/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | SC/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | ST/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | E2000/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | E2000/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | FC/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | FC/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | LC/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G | LC/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | MU/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I | MU/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J | SC/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | SC/APC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | ST/UPC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.5 | 1.5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | 2.5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1.5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 2.5m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Example Part Number

FISW **102** **C** **2** **A** **B** **B** **1** **1**

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



+44 (0) 870 127 3330



+44 (0) 870 127 3331



sales@fibrefab.com



www.fibrefab.com