



Multi-Core Fiber Filter WDM

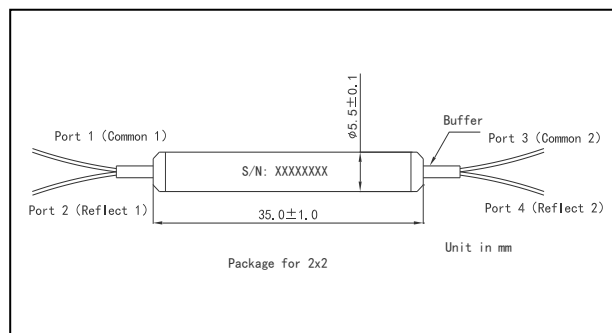
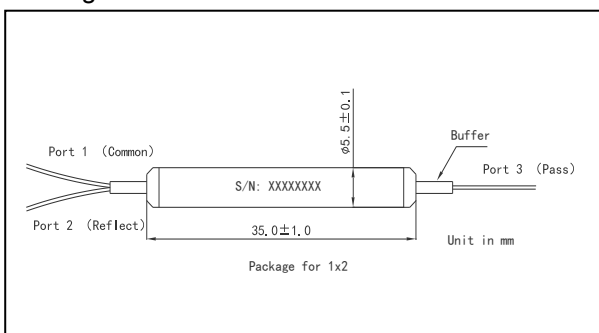
I&Optics' multicore fiber filter WDM can divide two different groups of wavelengths into two output ports or multiplex two different groups of wavelengths into one same output port with very low loss. It features low insertion loss, high wavelength isolation and flat band property. It can be used in lasers, telecom, secret communications and R&D.

Specification

Parameter	Test Condition	Unit	Value	
Port Configuration	-	-	1x2	2x2
Inner Core Number	-	-	2, 4, 7, 8 or Specify	
Pass Band Wavelength(PW)	Port 1 to Port 3	nm	1310 \pm 50 or 1550 \pm 50 or Specify	
Reflect Band Wavelength(RW)	Port 1 to Port 2, Port 3 to Port 4	nm	1550 \pm 50 or 1310 \pm 50 or Specify	
Max. Pass Band IL	Port 1 to Port 3	dB	1.0, Typ. 0.7	1.1, Typ. 0.8
Max. Reflect Band IL	Port 1 to Port 2, Port 3 to Port 4	dB	0.8, Typ. 0.65	0.8, Typ. 0.65
Min. Pass Isolation	Port 1 to Port 3, RW	dB	25, Typ. 30	
Min. Reflect Isolation	Port 1 to 2, Port 3 to 4, PW	dB	13, Typ. 15	
Max. Thermal Stability	-	dB/ $^{\circ}$ C	0.005	
Min. Directivity	Port 3 to Port 2 (1x2) and Port 2 to Port 3/4 (2x2)	dB	45	
Min. Crosstalk	between Any Two Cores	dB	45	
Min. Return Loss	-	dB	50	
Max. Power Handling Rate	Continuous Wave	mW	300 / Core or Specify	
Fiber Type	-	-	Single Mode Multicore Fiber or Specify	
Max. Fiber Tensile Load	-	N	5	
Operating Temperature	-	$^{\circ}$ C	-5 to 70	
Storage Temperature	-	$^{\circ}$ C	-40 to 85	

Above values are for device without connectors. For device with connectors, IL will be 0.7dB higher and return loss will 5dB lower. Other type of WDM is available upon request.

Package Dimensions



Ordering Informations

SMCFW-①-②-③-④-⑤-⑥

① - Pass / Reflect Wavelength

3155 - 1310nm Pass/1550nm Reflect

5531 - 1550nm Pass/1550nm Reflect

SSSS - Specify

② - Port Configuration

1 - 1x2

2 - 2x2

③ - Fiber Type

S - Specify

④ - Connector Type on port 1/2/3/4

3 - SC/UPC

4 - SC/APC

5 - LC/UPC

⑤ - Fiber Jacket on Port 1/2/3/4

B - Bare Fiber

L - 900um Loose Tube

⑥ - Fiber Length

0.6 - 0.6m