



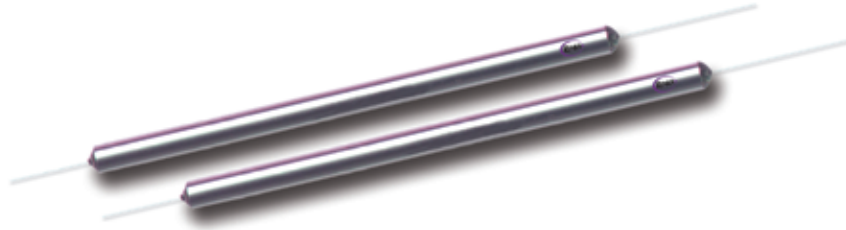
# wavelength division multiplexers

## Description

Renka® SmartCONNECT™ Supervisory WDM is a thin film filter based wavelength division multiplexer that is used to add a supervisory channel for active monitoring in an optical system. This SWDM offers low insertion loss and polarization sensitivity, while providing high isolation.

Renka WDMs are designed and tested to Bellcore GR-1209/GR-1221 performance and reliability industry standards.

## Supervisory WDM



## Applications

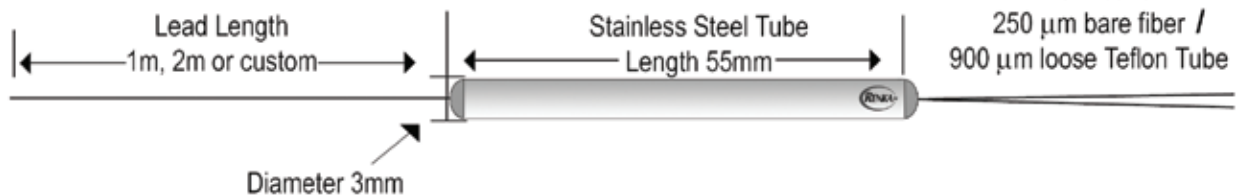
- System Monitoring
- Fiber Optic Instruments
- Transmitters and Fiber Laser
- Laboratory R&D

## Benefits

- Wide Operating Wavelength and Temperature Range
- Compact Packaging
- Low Insertion Loss
- High Isolation
- Ultra Low PDL
- Highly Stable and Reliable

## Package Dimensions

### Light/Medium Duty



## SWDM Specifications

		UNIT	L-Band	C-Band
Operation Wavelength	Reflect Channel	nm	1550 – 1570	1530 – 1610
	Pass Channel	nm	1610 – 1640	1500 – 1520
Insertion Loss	Reflect Channel	dB	≤0.6	
	Pass Channel	dB	≤0.8	
Isolation	Reflect Channel	dB	≥12	
	Pass Channel	dB	≥20	
Insertion Loss Variation		dB	≤0.3	
Directivity		dB	≥60	
Return Loss		dB	≥55	
Polarization Dependent Loss (PDL)		dB	≤0.1	
Thermal Stability		dB/°C	≤0.004	
Max Power Handling		mw	300	
Operation Temperature		°C	-10 to +70	
Storage Temperature		°C	-40 to +85	
Packaging Dimension		mm	∅5.5 x 34	

## Ordering Information

SWDM□-□□-□

### Wavelength

L: L Band  
C: C Band

### Package Type

L: Light Duty  
(200 μm bare fiber)  
M: Medium Duty  
(900 μm loose Teflon tube)

### Lead Length

1: 1 meter  
2: 2 meters  
C: Custom

### Connector Type

0: None