

# SpectraMux™ - Coarse WDM (Single Channel)

AFOP introduces the Spectramux™ family of products, which are designed for cost effective multiwavelength network applications. Channel spacing of 20 nm with wide bandpass characteristics allow for non-temperature controlled lasers to be used in transmitters. Based on AFOP's proven thin film technology, SpectraMux CWDMs allow for single wavelength to be used for uni- or bi-directional mux or demux. Like all AFOP DWDM products, these devices are designed for long life service under the most demanding field conditions. Most connector types are available for terminated ends.



## APPLICATIONS

- Sensor Systems
- 10 GB Ethernet
- CATV Systems
- Metro Optical Networks
- Metro Access Networks

## FEATURES

- 20 nm Channel Separation
- Bi - Directional
- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path

## SPECIFICATIONS - SPECTRAMUX COARSE WDM (SINGLE CHANNEL)

Parameters	Single Channel		
	Minimum	Typical	Maximum
Passband Width	$\lambda_c \pm 6.5 \text{ nm}$		
Pass Channel Insertion Loss		0.6 dB	1.0 dB
Reflection Channel Loss		0.4 dB	0.6 dB
Adjacent Channel Isolation	30 dB		
Non-Adjacent Channel Isolation	45 dB		
Isolation of Pass Channel @ Reflection Port	15 dB		
Optical Return Loss	45 dB	50 dB	
Directivity	50 dB		
PDL			0.2 dB
PMD			0.2 ps
Maximum Optical Power		300 mW	
Operating Temperature		- 5°C to + 65°C	
Storage Temperature		- 40°C to + 85°C	
Tensile Load (900 $\mu\text{m}$ Buffered)		5N Maximum	

## PACKAGE DIMENSIONS:

< 52.5 mm x 4.6  $\Phi$ mm (Including Boots) ■ Fiber Type: SMF 28e Compatible ■ Pigtail Length: 1 Meter (Standard)

## ORDERING INFORMATION:

CW 4	-	N	0	2	N	-	C	N	NNN
		⋮			⋮		⋮	⋮	⋮
		<b>Mux or DeMux</b>			<b>Package Type</b>		<b>Connector*</b>	<b>ITU Starting Wavelength</b>	<b>000: Standard</b>
		1: Mux 2: DeMux			0: 250 $\mu\text{m}$ Tube 1: 900 $\mu\text{m}$ Tube 2: 250 $\mu\text{m}$ Case 3: 900 $\mu\text{m}$ Case		A: None L: LC/PC P: FC/PC Q: FC/APC S: SC/PC T: SC/APC U: MU/PC	1: 1471 nm 2: 1491 nm 3: 1511 nm 4: 1531 nm 5: 1551 nm 6: 1571 nm 7: 1591 nm 8: 1611 nm	Running number used for special types or custom made

### Note:

\* Specifications do not include connector loss.

