Aerial Closure Filter

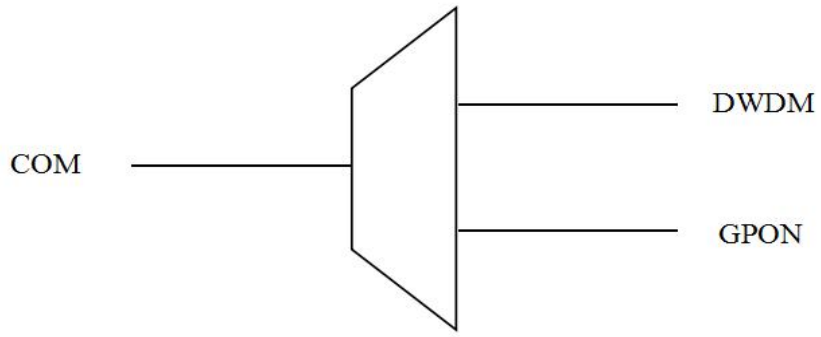
WDM-F1

Overview

In fiber-optic communications, WDM (wavelength-division multiplexing) is a technology which multiplexes a number of optical carrier signals onto a single optical fiber by using different wavelengths (i.e., colors) of laser light.

This technique enables bidirectional communications over one strand of fiber as well as multiplication of capacity. Generally, WDM technology is applied to an optical carrier which is typically described by its wavelength.

Function Diagram



Optical Specifications

Item	Parameters		Specification			Units	Symbol
			Min	Typ	Max		
1.	Reflect Port	DWDM Band		1525~1630		nm	λR1
		OTDR Band		1636~1671			λR2
2.	Pass Port	GPON Band		1260 ~1500		Nm	λP
3.	Insertion Loss, without connector	Pass Port, λP			0.6	dB	IL
		Reflect Port, λR1			0.45	dB	
		Reflect Port, λR2			0.6	dB	
4.	WDL, each band	Pass Port			0.3	dB	
		Reflect Port			0.3	dB	
5.	Isolation	Pass Port @ λR1	25			dB	IS
		Reflect Port @ λP	15			dB	
6.	Polarizations Dependent Loss				0.15	dB	PDL
7.	Return Loss	Without connector	50			dB	RL
		With connector	45				
8.	Directivity		50			dB	DIR
9.	Polarization Mode Dispersion				0.2	ps	PMD
10.	Optical Power				27	dBm	
11.	Maximum Relative Humidity, non-condensing				85	%	
12.	Operationg Temperature		-5		70	°C	
13.	Storage Temperature Range		-40		70	°C	
14.	Relative Humidity, non-condensing		5		95	RH	

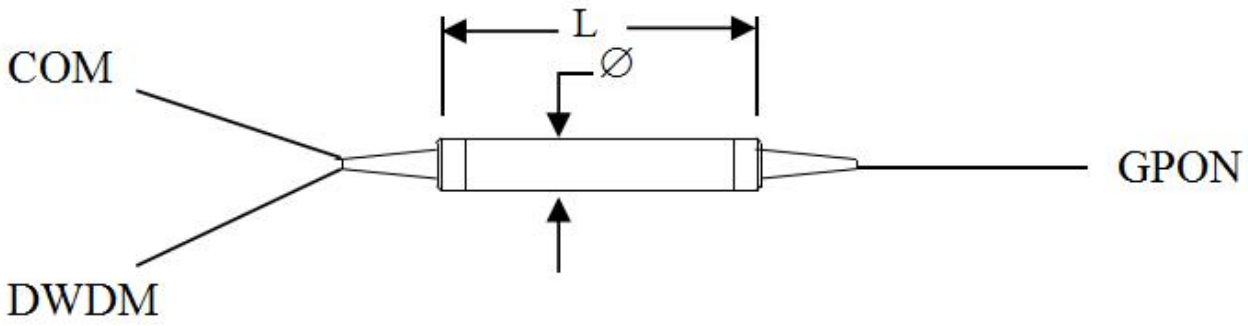
Longxing Telecom
LongXing Telecom
LongXingTelecom
Anju Road, Beilun District, Ningbo, China
info@lxtelecom.com
www.lxtelecom.com
+86 574 87908988
+86 574 87908188
Ver: 300318
LONGXING
We Shape Solutions

Package Specifications

- **Filter in the Aerial closure**

It will be a raw fiber without the box and connectors.

Single Device							
Item	**Parameters**		**Min**	**Typ**	**Max**	**Units**	**Note**
1.	Fiber Type			G.657A1			
2.	Fiber Jacket			250μm bare fiber			
3.	Fiber Length			0.5		m	
4.	Fiber Color	COM		Transparent			
		DWDM		Blue			
		GPON		White			
5.	Connector type			None			
6.	Packaging Dimensions			(∅) 5.5×(L) 34.0		mm	



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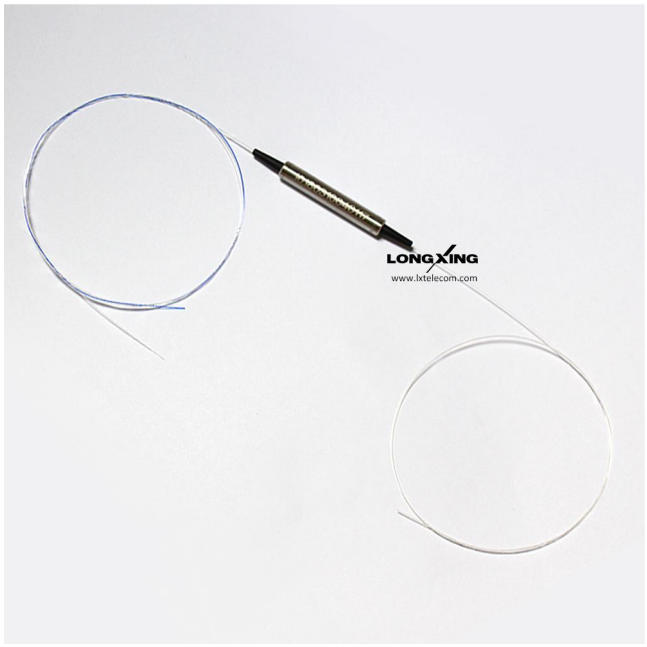
Part Details



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