

Cabinet Filter With 1x2 Splitter

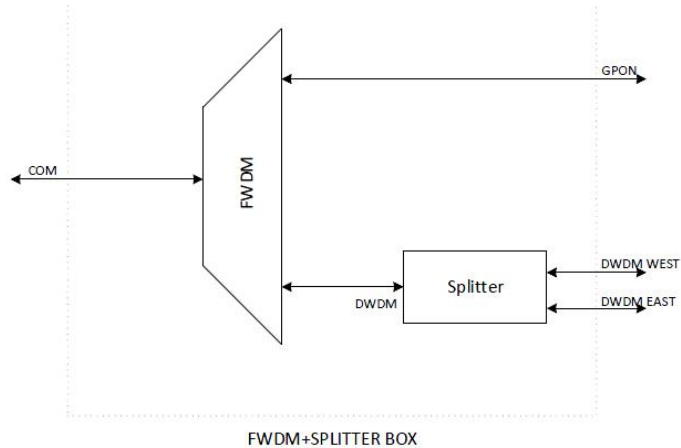
WDM-F3

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	$\lambda R1$
		OTDR Band	1636~1671				$\lambda R2$
2.	Pass Port	GPON Band	1260 ~1500			Nm	λP
3.	Insertion Loss, without connector	EAST Port, λP			4.4	dB	IL
		WEST Port, λP			4.4		
		Reflect Port, λR			0.5		
4.	WDL, each band	Pass Port			0.3	dB	
		Reflect Port			0.3		
5.	Isolation	EAST Port @ $\lambda R1$ $\lambda R2$	25			dB	IS
		WEST Port @ $\lambda R1$ $\lambda R2$	25				
		Reflect Port @ λP	15				
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.	Operating Temperature		-5		70	°C	
13.	Storage Temperature Range		-40		70	°C	
14.	Relative Humidity, non-condensing		5		95	RH	

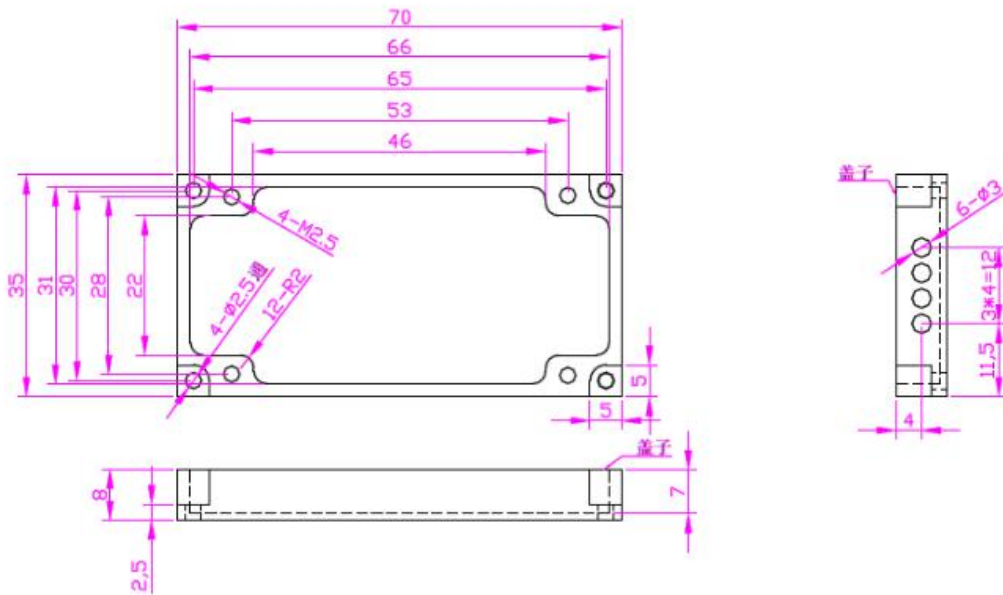
Package Specifications

- Filter in the Street cabinet

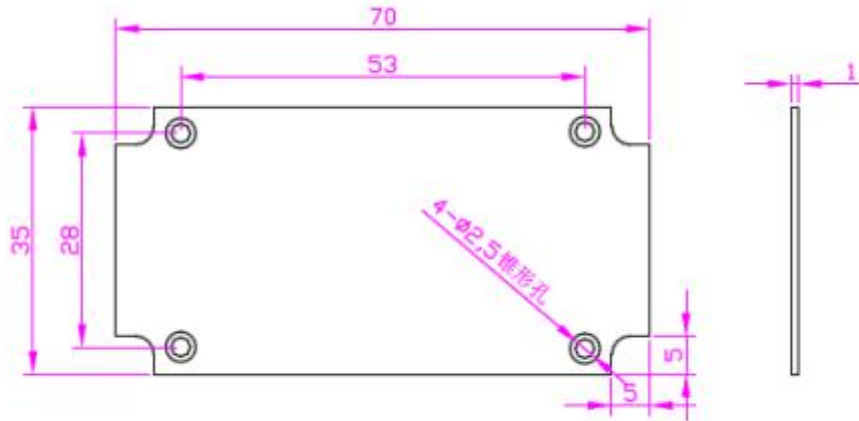
It will be Y cable filter with SC/APC connectors.

Y-Cable							
Item	Parameters		Min	Typ	Max	Units	Note
1.	Fiber Type			G.657A1			
2.	Fiber Jacket			3mm cable			
3.	Fiber Length	COM		35		cm	
		DWDM+OTDR		1		m	
		West		1		m	
		DWDM+OTDR		1		m	
		East		1		cm	
4.	Fiber Color	COM		Natural			
		DWDM		Natural			
		GPON		Natural			
5.	Connector type			SC APC			
6.	Packaging Dimensions			L70*W35*H9		mm	

Base of AL Box



Cover of AL Box



Part Details

