



Specification Summary

For Coarse Wavelength Division Multiplexer Module

Yilut's Coarse wavelength division multiplexer (CWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging.

Key Features:

- Low insertion loss
- High channel isolation
- High stability and reliability

Applications:

- WDM/DWDM system
- Add/Drop system
- CATV system

Optical Specifications:

Parameter	Unit	Specification			
Channels Number	ch	2	4	8	16
Central Wavelength		ITU-T Grid			
Bandwidth(@0.5dB Passband)	nm	≥14			
Channel Passband	nm	$\lambda_{ITU} \pm 6.5$			
Insertion Loss(Typ)	dB	1.4	1.6	1.8	4.3
Insertion Loss(MAX)	dB	1.8	2.0	2.5	5.0
Ripple	dB	≤0.3			
Adjacent Channel Isolation	dB	≥30			
Non-adjacent Channel Isolation	dB	≥45			
Return Loss	dB	≥45			
Polarization Dependent Loss	dB	≤0.10	≤0.15	≤0.20	≤0.25
Directivity	dB	≥50			

**Environmental Conditions:**

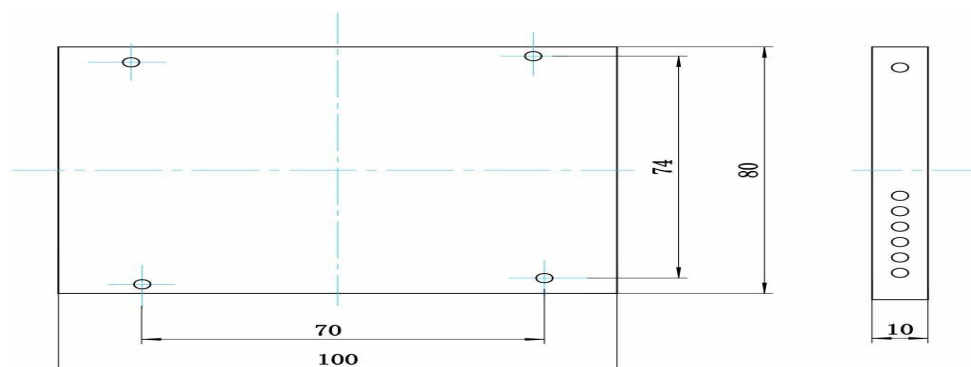
Operating Temperature	℃	-5~+65	
Storage Temperature	℃	-40~+85	
Operating Humidity	%RH	≤93	
Storage Humidity	%RH	≤93	

Shipping Mark:

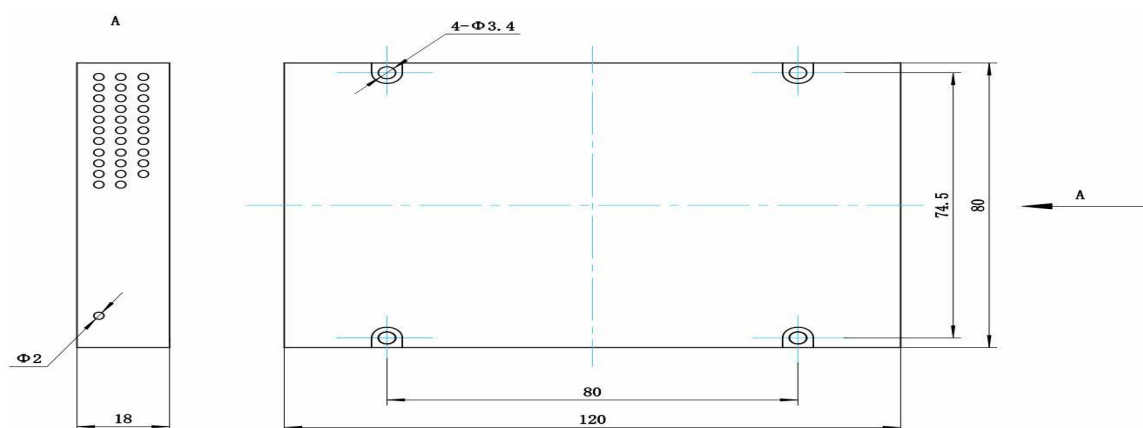
Mark on Box	P.O. /Contract No., Model No., Serial No., etc.
Special Requirement	Not Required

Device Schematic Drawing:

100 X80 X10mm



120 X80 X18mm



141 X115 X18mm

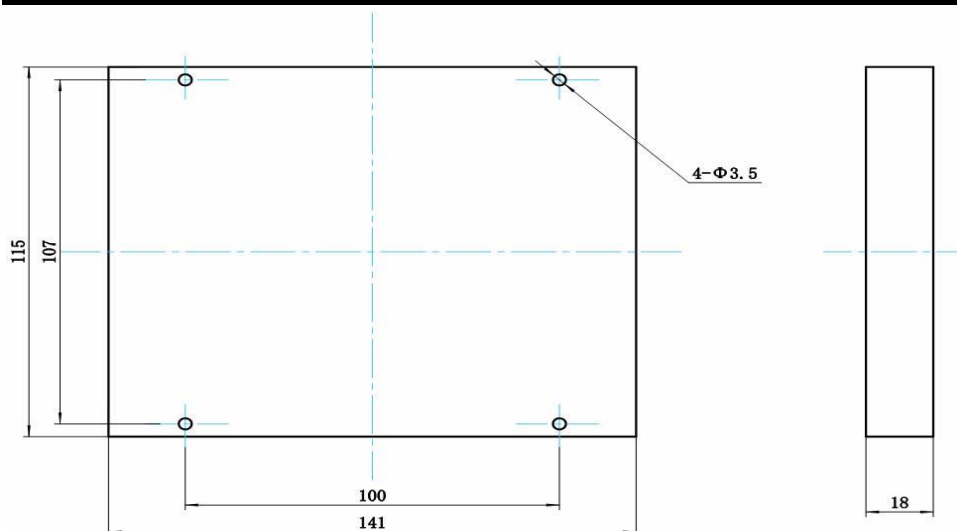


Photo:



**Order Information**

CWDM - - - - - - - - - -

Configuration Transmission EXP Channel First Fiber Package Pigtail Pigtail Connector
Characteristic Port Channel Type Dimension Type Length Type

Configuration	M=Mux; D=DeMux; M&D=Mux&DeMux;
Transmission Characteristic	1=1 Fiber, 2=2 Fibers
EXP Port	E=Yes, 0=None
Channel	02=2 Channels, 04=4 Channels, 08=8 Channels, 16=16 Channels, 18=18 Channels
First Channel	1270(1), 1290(1), ..., 1590(1), 1610(1)
Fiber Type	1=G652D, 2=G657A
Package Dimension	C, ..., F, K, G, H, U
Pigtail Type	L=900μm Loose tube, S=2.0mm, R=3.0mm, B=250μm Ribbon Fiber, 0=Adapter
Pigtail Length	05--20=0.5--2.0m, 0=Adapter, X=Others
Connector Type	FU=FC/UPC, FA=FC/APC, SU=SC/UPC, SA=SC/APC, ST=ST/UPC, LU=LC/UPC, LA=LC/APC, 00=None, X=Others

Packaging Information

1 CH	2/4 CH	8 CH	16/18 CH
C	E/L/XG/XU	K/L/XG/XU	F/L/H/XG/XU
D			

Package Dimensions (mm)

C	Φ5.5x38 steel tube	F	141x115x18 plastic case
D	90x20x9.5 plastic case	K	120x80x18 plastic case
E	100x80x10 plastic case	L	150x115x13 metal box
H	150x115x18 metal box	XU	19''X=1,2,3,4 U Rack Mount
XG	1,2,3,4 U LGX Rack Mount	X	Custom Specifies