



PON WDM

ACP's Micro-Optics WDM utilizes thin film coating technology and proprietary design of non-flux metal bonding micro-optics packaging. It provides low insertion loss, high channel isolation, low temperature sensitivity and epoxy free optical path.

All AC Photonics' products are Telcordia qualification tested.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications
Pass Wavelength	See table below
Reflect Wavelength	See table below
Insertion Loss (T)	≤ 0.60dB
Insertion Loss (R)	≤ 0.40dB
Insertion Loss Variation	≤ 0.30dB
Pass Channel Isolation	≥ 30dB
Reflect Channel Isolation	≥ 15dB
Insertion Loss Temperature Sensitivity	≤ 0.003dB/°C
Polarization Dependent Loss	≤ 0.10dB
Polarization Mode Dispersion	≤ 0.10ps
Directivity	≥ 55dB
Return Loss	≥ 50dB
Optical Power	≤ 300mW
Operating Temperature	0 to +70°C
Storage Temperature	- 40 to +85°C
Package Dimensions	A= 5.5x34mm M= 4.8x30mm N= 3.5x30mm

FEATURES

Full Band Wavelength Range
Low Insertion Loss
Ultra Flat Wide Passband
High Channel Isolation
High Stability and Reliability
Epoxy Free Optical Path

APPLICATION

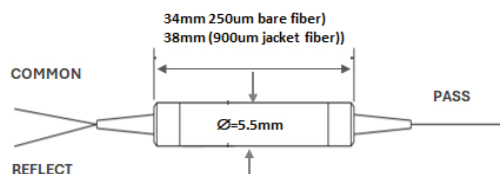
GPON system
EPON system
XG-PON System
NG-PON2 (TWDM) system

Wavelength option	Band	Pass Wavelength	Reflect Wavelength
F1662	1260~1635nm	ITU 16~62	1260~1520nm & 1570~1635nm
FXGPN	1260~1650nm	1260~1280nm & 1575~1580nm	1290~1562nm & 1590~1650nm
FTWDM	1260~1620nm	1525~1565nm & 1600~1620nm	1260~1500nm & 1574~1580nm
FGPON	1260~1650nm	1300~1330nm & 1480~1500nm	1260~1280nm & 1524~1650nm

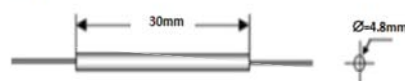
PON WDM

MECHANICAL DIMENSIONS

A Package



M Package



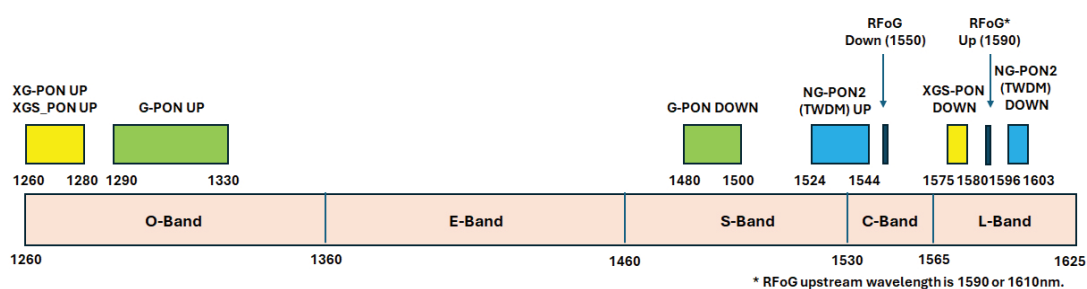
N Package



PORT CONFIGURATIONS



UPSTREAM AND DOWNSTREAM WAVELENGTH PLAN FOR XG-PON, 10 GE-PON, GPON CHART



ORDERING INFORMATION

MWDM	Wavelength Option	Port	Package	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
	F1662	102=1x2	A=A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0=None	0=None
	FXGPN		M=M package	(G.657.A1)	2=900um	10=1.0m	1=FC/APC	1=FC/APC
	FTWDM		N=N package	3=ClearCurve	loose tube	·	2=FC/PC	2=FC/PC
	FGPON			ZBL(G.657.B3)		·	3=SC/APC	3=SC/APC
						·	4=SC/PC	4=SC/PC
						20=2.0m	5=ST	5=ST
							6=LC/UPC	6=LC/UPC
							7=LC/APC	7=LC/APC

*1=SMF-28(G.652) is available upon request.

PON WDM

RELATED PRODUCTS

Single Mode WDM

Pump/Sigal MWDM

FTTH

Fused WDM

PM WDM

Multi-mode WDM

Bandpass/Edge/Notch Filter

PLC Splitter Module and Rack

PON WDM ^{NEW}

