

Introduction

Planar Lightwave Circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology to distribute optical signals from Central Office (CO) to multiple premise locations. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity and is widely used in PON networks to realize optical signal power splitting as a low-cost solution. In addition, this pigtail module features an epoxy filled waterproof module and comes with outdoor rated temperature fan-outs. All products meet GR-1209-CORE and GR-1221-CORE requirements.

**Features:**

- Low Insertion loss
- Low PDL (Polarization Dependent Loss)
- Compact Design
- High Reliability and Stability
- Good channel-to-channel uniformity
- Wide Operating Wavelength:
 - From 1260nm to 1650nm
- Wide Operating Temperature:
 - From -40°C to 85°C
- Waterproof Epoxy Sealed Module
- Outdoor Rated Temperature Fan-outs

Applications:

- FTTX Systems
- PON Networks
- CATV Links
- Optical Signal Distribution

Compliance:

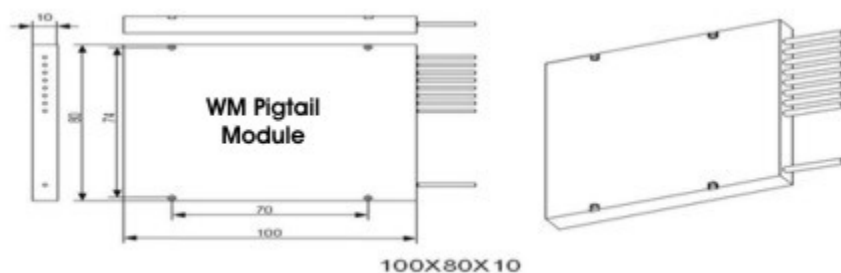
- Telcordia GR-1209-CORE
- Telcordia GR-1221-CORE
- RoHS

Specifications:

Parameters	1 x 2	1 x 4	1 x 8	1 x 16	1 x 32
Operating Wavelength	1260-1650				
Fiber Type	G657B				
Insertion Loss (dB)	3.8	7.1	10.2	13.5	16.5
Loss Uniformity (dB)	0.4	0.6	0.8	1.2	1.5
Return Loss (dB)	55	55	55	55	55
Polarization Dependant Loss (PDL, dB)	0.2	0.2	0.3	0.25	0.3
Directivity (dB)	55	55	55	55	55
Wavelength (dB)	.05	.05	.05	.05	.05
Temperature Stability (-40° -85°C) (dB)	.05	.05	.05	.05	.05
Operating Temperature (°C)	-40 -85				
Storage Temperature (°C)	-40 -85				
Module Dimensions (mm) (L x W x H)	100 x 80 x 10	100 x 80 x 10	100 x 80 x 10	120 x 80 x 18	120 x 80 x 18

Notes:

- 1) Specified without Connectors
- 2) Add an additional 0.15dB loss per connector
- 3) 2.00mm yellow cable legs

Waterproof Splitter Module


Ordering Information

FPP	-	XXX	-	XX	XX	XX	XX	-	X	X
		Port Configuration		Pigtail Module Type	Fiber Fanout	Input Fiber Length	Output Fiber Length		Input Connector	Output Connector
F =Fiberdyne		102=1x2		WM=Waterproof Module	2U=2mm Outdoor Fanout	10=1.0m	10=1.0m		0=None	0=None
P=PLC Splitter		104=1x4				15=1.5m	15=1.5m		1=FC/UPC	1=FC/UPC
P=Pigtail Module		108=1x8				20=2.0m	20=2.0m		2=FC/APC	2=FC/APC
		116=1x16				XX=Custom (Specify)	XX=Custom (Specify)		3=SC/UPC	3=SC/UPC
		132=1x32							4=SC/APC	4=SC/APC
									7=Custom (Specify)	7=Custom (Specify)
									L=LC/UPC	L=LC/UPC
									N=LC/APC	N=LC/APC

Fiberdyne Labs manufactures fiber optic Coupler/Splitters in a variety of configurations. Call your Fiberdyne Sales Representative at [800-894-9694](tel:800-894-9694) or email us at sales@fiberdyne.com