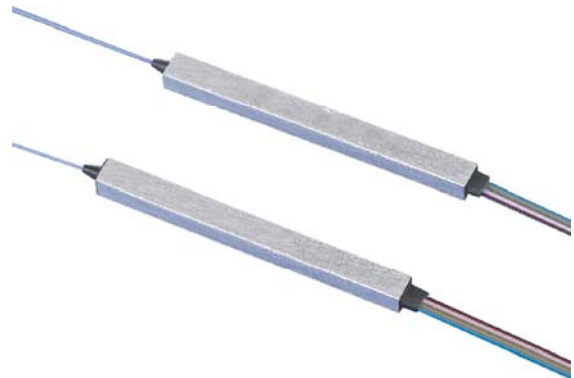


Planar Lightwave Circuit Splitter Device

Product Description

Marchan Planar Lightwave Circuit Splitter is based on reliable alignment technology between fiber array and splitter chipset.

Marchan Planar Lightwave Circuit Splitter enables a wide bandwidth transmission in terms of low insertion loss and high reliability.

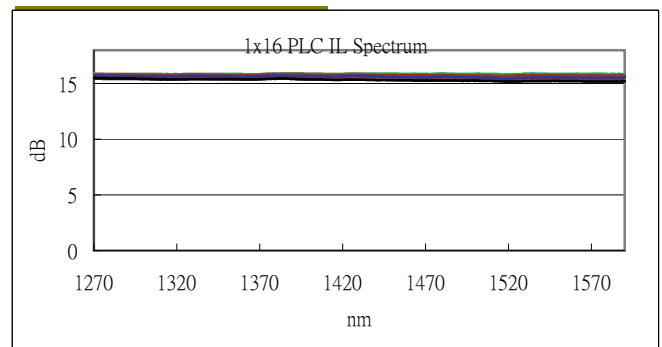


Product Features

- Low Insertion Loss, PDL
- Broadband operation
- Excellent Uniformity
- High Reliability (meet GR-1209,GR-1221)
- RoHS Compliant

Applications

- Local Area Network
- LANs, CATV Network
- FTTx
- Testing Instruments

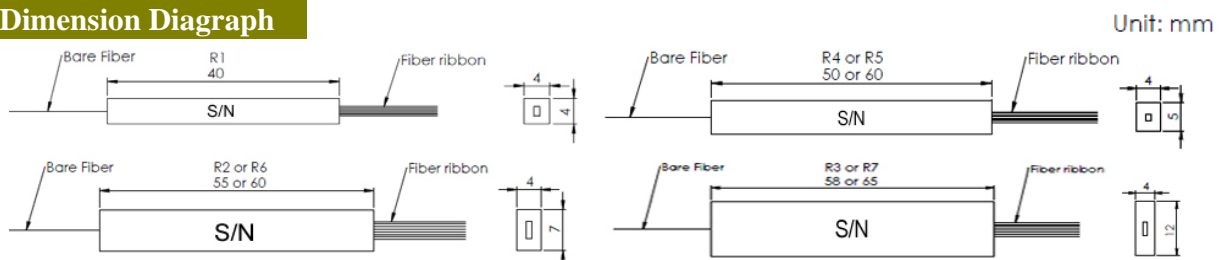


Product Specifications

Specifications									
Parameters	unit	1×8	2×8	1×16	2×16	1×32	2×32	1×64	2×64
Operating wavelength	nm	1260-1650							
Insertion Loss(Max.) *1	dB	10.5	11.5	13.5	14.5	16.7	18	21.2	22.5
Uniformity (Max.)	dB	0.8	1.4	1.2	1.8	1.5	2.3	1.8	3.0
PDL (Max.)	dB	0.2	0.3	0.2	0.4	0.25	0.4	0.3	0.4
Directivity(Min.)	dB	55							
Return Loss(Min.)	dB	55							
Operating temperature	°C	-40~85							
Package Dimension (H×W×L)	mm	4×4×40	4×5×50	4×4×40	4×5×60	4×7×55	4×7×60	4×12×60	4×12×65

*1 Values are reference without connector loss, IL max. add 0.3 dB per connector.

Dimension Diagram



Parameter	Unit	Specifications				
		1 × 4	1 × 8	1 × 16	1 × 32	1 × 64
Insertion loss ^(1,2,3)	dB	7.3	10.5	13.5	16.7	21.2
Loss uniformity (max) ^(1,3,4)	dB	0.6	0.8	1.2	1.5	1.8
PDL (max) ⁽¹⁾	dB	0.2	0.2	0.2	0.25	0.3
Return loss (min) ^(1,3)	dB	≥ 55.0				
Directivity (min) ^(1,3)	dB	≥ 55.0				
Module Dimension(LxWxH)	mm	40x4x4			55x7x4	58x12x4

Parameter	Unit	Specifications					
		2 × 2	2 × 4	2 × 8	2 × 16	2 × 32	2 × 64
Insertion loss ^(1,2,3)	dB	4.5	8.5	11.5	14.5	18.0	22.5
Loss uniformity (max) ^(1,3,4)	dB	0.8	1.2	1.4	1.8	2.3	3.0
PDL (max) ⁽¹⁾	dB	0.2	0.2	0.3	0.4	0.4	0.4
Return loss (min) ^(1,3)	dB	≥ 55.0					
Directivity (min) ^(1,3)	dB	≥ 55.0					
Module Dimension(LxWxH)	mm	40x4x4	50x5x4	50x5x4	60x5x4	60x7x4	65x12x4

5. Operating and Storage Conditions

Parameter	Specifications
Operating Temperature*	-40°C ~ 85°C
Operating Wavelength*	1260 nm ~ 1650 nm
Storage Temperature	-40°C ~ 85°C
Storage Humidity	30 ~ 85% RH

* Typical temperature and wavelength dependence of IL & PDL could be supplied

Ordering Information

MPLC - - - - - - - - - - - - - -

Fiber Type

- 1 : corning SMF-28e
- 2 : G657A

Structure

- | | |
|------------|------------|
| A08 : 1×8 | B08 : 2×8 |
| A16 : 1×16 | B16 : 2×16 |
| A32 : 1×32 | B32 : 2×32 |
| A64 : 1×64 | B64 : 2×64 |

Operating Wavelength

- 35 : 1260 to 1650 nm

Coupling Ratio

- 00 : even ratio

Grade

- S : standard grade

Package

- | | | |
|-----------------|----------------|-----------------|
| R1 : 4×4×40 mm | R4 : 4×5×50 mm | R7 : 4×12×65 mm |
| R2 : 4×7×55 mm | R5 : 4×5×60 mm | |
| R3 : 4×12×60 mm | R6 : 4×7×60 mm | |

Tubing

- R : ribbon fiber
- L : fan out kit with 900 µm loose tube
- 2 : fan out kit with 2.0 mm PVC cable
- 3 : fan out kit with 3.0 mm PVC cable

Tail Length*3

- ab : a.b m
- 10 : 1.0 m 15 : 1.5 m

Input / Output Connectors

- | | | |
|-------------|-------------|-----------------------|
| 00 : none | | |
| FC : FC/PC | SU : SC/UPC | EA : E2000/APC |
| FU : FC/UPC | SA : SC/APC | ST : ST/PC |
| FA : FC/APC | LC : LC/PC | SU : ST/UPC |
| SC : SC/PC | LU : LC/UPC | XX : customer specify |

*3 Tail length tolerance: 0~+10 cm