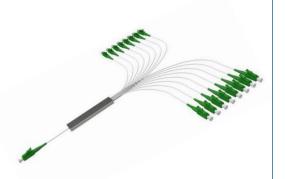
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**Features** 

- Wide Wavelength
- Ultra Low Excess Loss
- Low PDL
- Highly Stable & Reliable
- High Uniformity
- Low Cost
- Telcordia Qualified

### **Applications**

- Telecommunications
- FTTX
- CATV
- LAN
- Passive Optical Network (PON)

A planar lightwave circuit (PLC) splitter is an optical power management device fabricated
using silica optical waveguide technology to distribute optical signals from the Central Office
(CO) to multiple premise locations. Bare fiber splitter is a kind of ODN product suitable for
PON networks that can be installed in the pigtail cassette, test instrument, and WDM
system, which minimizes space occupation.

#### **Specifications**

Parameter		Min	Typical	Max	Unit	
Wavelength	1260		1650	nm		
	1x2		4.0		dВ	
	1x4		7.3			
Insertion Loss <sup>[1], [2]</sup>	1x8		10.8			
Insertion Loss * ***	1x16		13.8			
	1x32		17.2			
	1x64		20.5			
	1x2		0.6			
	1x4		0.8			
Uniformity	1x8		1.0		dB	
Uniformity	1x16		1.5			
	1x32		2.0			
	1x64		2.5			
	1x2		0.2		dB	
	1x4		0.2			
PDL	1x8		0.2			
PDL	1x16		0.3			
	1x32		0.3			
	1x64		0.3			
Return Loss			50		dB	
Directivity			55		dB	
Power Handling			300		mW	
Working Temperature		-40		85	°C	
Storage Temperature	-40		85	°C		
Fiber type	Corning SMF28					
Connector Type	Custom specified					

Notes:

[1]. Measured without connectors at room temperature

[2]. For devices with connectors, ass 0.3dB to the IL

**Note:** The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this <u>link</u>]:

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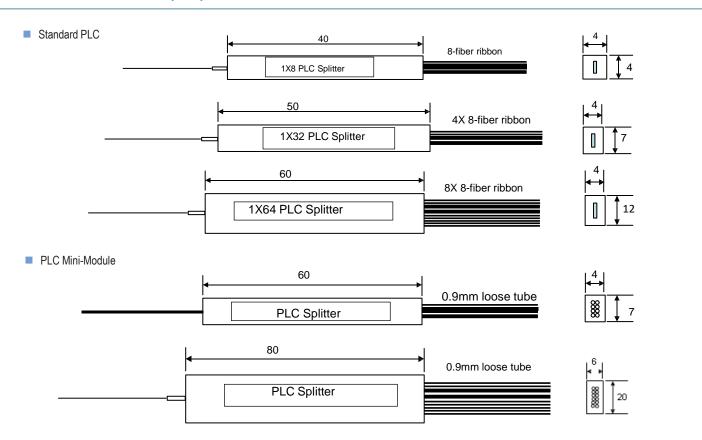
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### **Mechanical Dimensions (mm)**



\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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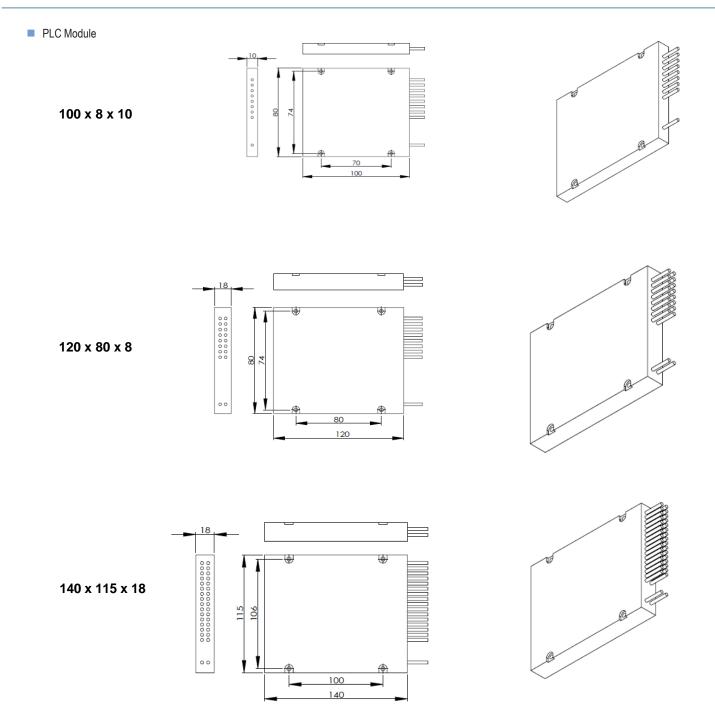
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### **Ordering Information**

	А							
Prefix		Wavelength	Port	Package	Fiber Type	Fiber Length	Input Connector	Output Connector
PSM1-		1310 = 1 1550 = 2 C+L = 6 Special = 0	1x2 = 02 1x4 = 04 1x8 = 08 1x16 = 16 1x32 = 32 1x64 = 64	Standard = 1 Mini module = 2 Module = 3	250um = 1 900um tube = 3 Special = 0	0.25m = 1 0.5 m = 2 1.0 m = 3 1.5 m = 4 2.0 m = 5 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/APC = A LC/UPC = U Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/APC = A LC/UPC = U Special = 0

#### **Fiber Core Alignment**

Note that the minimum attenuation for these devices depends on excellent core-to-core alignment when the connectors are mated. This is crucial for shorter wavelengths with smaller fiber core diameters that can increase the loss of many decibels above the specification if they are not perfectly aligned. Different vendors' connectors may not mate well with each other, especially for angled APC.

#### **Fiber Cleanliness**

Fibers with smaller core diameters (<5 µm) must be kept extremely clean, contamination at fiber-fiber interfaces, combined with the high optical power density, can lead to significant optical damage. This type of damage usually requires re-polishing or replacement of the connector.

#### **Maximum Optical Input Power**

Due to their small fiber core diameters for short wavelength and high photon energies, the damage thresholds for device is substantially reduced than the common 1550nm fiber. To avoid damage to the exposed fiber end faces and internal components, the optical input power should never exceed 20 mW for wavelengths shorter 650nm. We produce a special version to increase the how handling by expanding the core side at the fiber ends.

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