

# UHD Splitter Cartridge Module



## Features & Benefits

- Bi-directional performance with accurate split ratios
- Ultra-broadband range (1260 ~ 1650nm)
- Low insertion loss; excellent uniformity
- Low Polarization Dependent Loss (PDL)
- Low Polarization Mode Dispersion (PMD)
- Ultra-High Density
- Compatible with all PPC UHD chassis
- 2011/65/EU RoHS compliant and halogen free
- GR-326, GR-1209 and GR-1221 compliant



## Overview

PPC Planar Lightwave Circuit (PLC) Splitters are manufactured using silica glass waveguide circuits and extremely precise alignment of optic fibers in very small package. They split or combine light from incoming fibers to multiple numbers of outgoing fibers. They perform uniformly over a wide spectral range, with ultra-low losses.

The Plug & Play UHD Splitter Modules offer Ultra-High density and splitter ratios between 1:2 to 2:32 and are fully compatible with all chassis and panels in the PPC UHD and SKS UHD product lines.

The pre-connectorised modules are an ideal solution for applications that demand high density and ultra low loss performance, eliminating the added cost and insertion loss from using patch cables and significantly decreasing the overall space requirements.

## Mechanical Data

Operating wavelength	Return loss and Directivity
<i>nm</i>	<i>dB</i>
1260 ~ 1650	Min. 55

Abmessung (B x T x H)	Operating temperature
<i>mm</i>	<i>°C</i>
86 x 152 x 12,1	-40 to 85 (-10 to +70 for LSZH)

Storage temperature	Maximum input power
<i>°C</i>	<i>mW</i>
-40 bis 85	500

Fiber type	Connector type
SM G.657.A1 (other on request)	SC or LC (other on request)

Optical Data	1x2	1x4	1x8	1x16	1x32	2x4	2x8	2x16	2x32
Insertion loss (dB)	3,8	7,0	10,4	13,6	17,0	7,6	10,8	14,0	17,5
Channel Uniformity (dB)	0,6	0,6	0,8	1,2	1,6	1,0	1,0	1,5	1,8
PDL (dB)	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,3	0,3
WDL (dB)	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Connector loss (dB)	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2

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## Ordering Information

Example PPLCMA 

8
1

 - 

2	1	6
2		

 L 

3
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 - S C A 

4
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 - 

1	6
5	

 - 

1	5
6	

### 1 Splitter count per module

- 1 = 1 Splitter
- 2 = 2 Splitters
- 3 = 4 Splitters
- 8 = 8 Splitters

### 2 Splitter type

- 102 = 1x2 Splitter
- 104 = 1x4 Splitter
- 108 = 1x8 Splitter
- 116 = 1x16 Splitter
- 132 = 1x32 Splitter
- 202 = 2x2 Splitter
- 204 = 2x4 Splitter
- 208 = 2x8 Splitter
- 216 = 2x16 Splitter
- 232 = 2x32 Splitter

### 3 Jacket material

- P = Plenum
- L = LSZH

### 4 Connector type

- SCA = SC/APC
- SCU = SC/UPC
- LCA = LC/APC
- LCU = LC/UPC

### 5 Lead diameter

- 16 = 1,6 mm
- 20 = 2,0 mm

### 6 Lead length

- 10 = 1,0m standard
- 15 = 1,5m
- 20 = 2,0m