

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's Planar Lightwave Circuit (PLC) Splitters are manufactured using silica glass waveguide circuits and an extremely precise alignment of optic fibers in very small package. They split or combine light from incoming fibers to multiple outgoing fibers. The splitters 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-connectorized modules are ideal solutions 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

Dimension (L x W 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 to 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

This product may be protected by one or more patents • For further information, please visit: www.ppc-online.com/patents

customerservice@ppc-online.com • 1-800-800-6652 • www.ppc-online.com

UHD Splitter Cartridge Module



Ordering Information

Example

PPLCMA

8	2	1	6	L	S	C	A	1	6	1	5
1	2	3	4	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