

TurnOpt™ Splitter Module, GEN2 PLC



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)
- Up to 8 input leads; up to 32 output leads
- Suitable for indoor or outdoor applications
- 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 GEN2 PLC Splitter Modules are enclosed in a chemically resistant housing and are compliant with Telcordia GR-326, GR-1209 and GR-1221 standards. They easily snap into and finger release from splitter slots in Opterna Fiber Distribution Hubs or Splitter Chassis (no tools required).

Mechanical Data

Dimension (L x W x H)	Operating wavelength	Test wavelength
<i>mm</i>	<i>nm</i>	<i>nm</i>
125 x 15 x 58	1260 ~ 1650	1310, 1490, 1550 and 1625

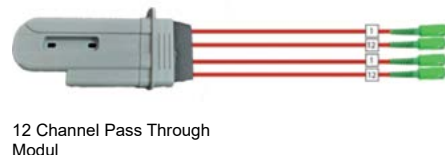
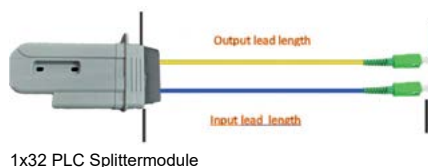
Return loss: 1x32	Channel Uniformity	Directivity
<i>dB</i>	<i>dB</i>	<i>dB</i>
17,4 (SC/APC connector inclusive)	1,6	55

Return Loss	PDL	Insertion Loss: Connector
<i>dB</i>	<i>dB</i>	<i>dB</i>
0,3	0,3	0,3

Operating temperature	Storage temperature
<i>°C</i>	<i>°C</i>
-40 to 85	-40 to 85

Maximum input power	Fiber type
<i>mW</i>	
500	SM G.657.B3

TurnOpt™ Splitter Module, GEN2 PLC



Optical Daten

Parameter	1x2	1x4	1x8	1x16	1x32	2x2	2x4	2x8	2x16	2x32
Insertion loss (dB)	3,8	7,1	10,4	13,6	17,0	4,2	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	1,0	1,5	1,8
Polarization dependent loss (dB)	0,2	0,2	0,2	0,3	0,3	0,3	0,3	0,3	0,3	0,3
Wavelength dependent loss (dB)	0,3	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	0,2
Dimensions	4.9 x 0.6 x 2.3 inches (125 x 15 x 58 mm) (L x W x H)									

Ordering Information

Example TSM 4 - 1 0 8 P- L C A - S R - 1 - 0

1 2 3 4 5

1 Splitter count

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

2 Splitter type

- 102 = 1x2 Splitter (1, 2, 3, or 4)
- 104 = 1x4 Splitter (1, 2, 3, or 4)
- 108 = 1x8 Splitter (1, 2, 3, or 4)
- 116 = 1x16 Splitter (1 or 2)
- 132 = 1x32 Splitter (nur 1)
- 202 = 2x2 Splitter (1, 2, 3, or 4)
- 204 = 2x4 Splitter (1, 2, 3, or 4)
- 208 = 2x8 Splitter (1, 2, 3, or 4)
- 216 = 2x16 Splitter (1 or 2)
- 232 = 2x32 Splitter (only 1)

3 Connector type

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

4 Parking tray

- Blank = TurnOpt™ 1000 or 1100
- SL = TurnOpt 2000 left hinge
- SR = TurnOpt 2000 right hinge
- NN = no parking trays

5 Alternate lead length (optional)

- 0-5 = 0,5 meter
- 1-0 = 1,0 meter
- 1-5 = 1,5 meter
- 2-0 = 2,0 meter

Description	Part Number
12 Channel Pass-Through Module SC-APC (left hinge)	PTM120-SCA-2R2R-SL
12 Channel Pass-Through Module SC-APC (right hinge)	PTM120-SCA-2R2R-SR