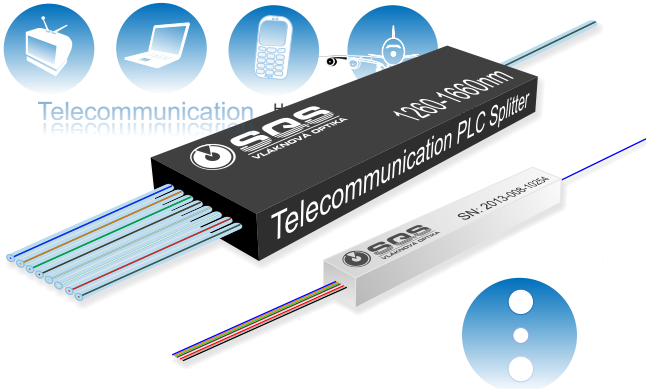




PLC Polarization Maintaining Splitters

Splitting 1xN, 2xN,
Asymmetrical ratio: 60/40, 70/30, 80/20, 95/5, 98/2 (%)



Applications

- Gyroscope
- Telecom
- Sensors

Features

- Wavelength independent optical parameters
- High polarization Extinction Ratio (ER)
- Polarized light into one axis (fast or slow) or two (for example 45°)
- Housing, optical fibers, connectors according to customers request

PM planar splitter maintains polarization of input optical signal. PM splitters are supplied in configurations with 2, 4, and 8 output channels. Polarization maintaining optical splitter is an optical splitter in which the polarization of linearly polarized light waves launched into the fiber is maintained during propagation, with little or no cross-coupling of optical power between the polarization modes. Such splitters are used in special applications where preserving polarization is essential e.g. laboratory, sensor technology and other industrial or medical applications.

Symmetrical PM Splitters

PLC Splitters PM 1xN	Insertion Loss max: dB	Polarization Extinction Ratio dB	Uniformity max: dB	Return Loss dB	Directivity dB	Wavelength Range* nm	Fiber Type	Operating and Storage Temperature °C	Pigtail Style 250 μm nm	Pigtail Style 900 μm nm	Pigtail Style 2 mm nm
PLC Splitters 1x2	4	≥ 25	0.5	≥ 55	≥ 55	1260 - 1650	Pm13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x3	6.5	≥ 25	0.8	≥ 55	≥ 55	1260 - 1650	Pm13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x4	8.1	≥ 25	0.8	≥ 55	≥ 55	1260 - 1650	Pm13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x8	11.2	≥ 25	1.0	≥ 55	≥ 55	1260 - 1650	Pm13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x24	18	≥ 20	2.0	≥ 55	≥ 55	1260 - 1650	Pm13, PM15 or Demand	-20 to +60	5.6x10x69	on request	on request

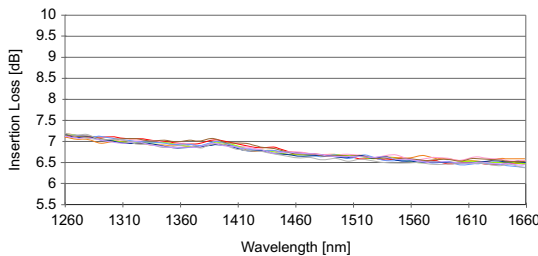
Specification of Asymmetrical PM Splitters, Splitting ratio 60/40%, 70/30%, 80/20%, 90/10%, 95/5%, 98/2%

PLC Asymmetrical Splitters	Ratio %	Polarization Extinction Ratio dB	Insertion Loss max: dB	Polarization Dependent Loss: dB	Return Loss: dB	Directivity: dB	Wavelength range*: nm	Fiber type	Operating and storage temperature °C	Pigtail style 250 μm mm	Pigtail style 900 μm mm	Pigtail style 2 mm mm
PLC Splitters 1x2	60/40	> 25	3.9/4-6	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x2	70/30	> 25	3.5/5-7	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x2	80/20	> 25	3.0/7-9	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x2	85/15	> 25	2.5/8-10	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x2	90/10	> 25	2.0/9-12	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x2	95/5	> 25	1.5/12-15	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90
PLC Splitters 1x2	98/2	> 25	1.2/15-18	≤ 0.2	≥ 55	≥ 55	1260-1650	PM13, PM15 or Demand	-20 to +60	5.6x10x69	5.6x10x69	7.5x12x90

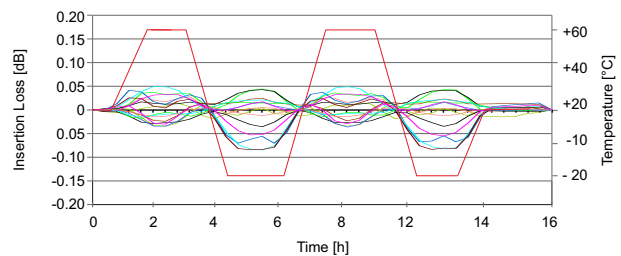
*) Depends on fiber type. Shorter wavelengths available.

***) w/o connectors

Optical Parameters of PLC PM Splitter 1x8



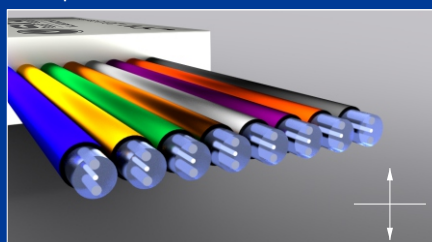
Temperature Test of PLC PM Splitter 1x8



PLC Splitter 1x32 ARC/PM Version



Example of Slow Axis Polarization PM Fiber



Example of Fast Axis Polarization PM Fiber

