

Features & Benefits

- Low insertion loss
- Ultra-broadband performance (1250-1650nm)
- Low Polarization Dependant Loss (PDL) and Polarization Mode Dispersion (PMD)
- 1 or 2 input channels and up to 64 output channels
- Ultra-small, suitable for all applications
- Available with all type of packages and connectors



Overview

PPC's Planar Lightwave Circuits (PLC) splitters are manufactured using silica glass waveguide circuits and extremely precise alignment of optic fibers in a very small package. They split or combine light from one or two incoming fibers to multiple numbers of outgoing fibers. They perform uniformly over a wide spectral range, with ultra-low losses. PPC splitters are highly compact, reliable and available in very wide range of fiber and connector types. All PPC PLC splitters are fully compliant with the Telcordia GR-1209 & GR-1221 standard.

Mechanical Data

Operating wavelength	Return loss and Directivity
<i>nm</i>	<i>(Unit)</i>
1250 ~ 1650	≥55

Directivity	Operating / storage temp
<i>dB</i>	<i>°C</i>
≥55	-40 to 85

Maximum input power	Fiber type
<i>mW</i>	
500	SM G.652.D, G.657.A1, G.657.A2

Optical Data	1x2	1x4	1x8	1x16	1x32	1x64	2x2	2x4	2x8	2x16	2x32	2x64
Insertion loss (dB)	3.9	7.2	10.2	13.4	16.4	20.5	4.2	7.6	10.8	14.0	17.5	21.0
Channel Uniformity (dB)	0.5	0.6	0.8	1.2	1.5	2.0	0.8	1.0	1.0	1.5	1.8	3.0
Polarization dep loss (dB)	0.2	0.2	0.2	0.3	0.3	0.5	0.2	0.3	0.3	0.3	0.3	0.4
Wavelength dep loss (dB)	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Temperature loss (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Connector loss (dB)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

PLC Splitters



Dimensions (H x W x L)	Basic type	Integrated type	Box type
	<i>mm</i>	<i>mm</i>	<i>mm</i>
1:2	4 x 4 x 40	4 x 4 x 40	10 x 20 x 90
1:4	4 x 4 x 40	4 x 7 x 50	10 x 20 x 90
1:8	4 x 4 x 40	4 x 7 x 50	10 x 45 x 100
1:16	4 x 4 x 40	4 x 12 x 60	10 x 80 x 100
1:32	4 x 7 x 50	6 x 20 x 80	10 x 80 x 100
1:64	4 x 12 x 60	6 x 40 x 100	18 x 80 x 120
2:2	4 x 4 x 50	4 x 7 x 68	10 x 80 x 100
2:4	4 x 4 x 50	4 x 7 x 68	10 x 80 x 100
2:8	4 x 4 x 50	4 x 7 x 68	10 x 80 x 100
2:16	4 x 7 x 55	4 x 12 x 70	10 x 80 x 100
2:32	4 x 7 x 55	6 x 20 x 80	10 x 80 x 100
2:64	4 x 12 x 70	5 x 43 x 120	17 x 114 x 140

Ordering Information

Example

PL	1	0	2	1	3	1	3	2	9	9	1	0	1	5	3	6
	1			2		3		4	5	6	7		8		9	

<p>1 PLC Typ</p> <p>102 = 1x2 104 = 1x4 108 = 1x8 116 = 1x16 132 = 1x32 164 = 1x64 202 = 2x2 204 = 2x4 208 = 2x8 216 = 2x16 232 = 2x32 264 = 2x64</p>	<p>3 I/P connector</p> <p>31 = SC/UPC 32 = SC/APC 11 = LC/UPC 12 = LC/APC 51 = FC/APC 52 = FC/APC 00 = No conn</p>	<p>5 I/P fiber</p> <p>0 = 250um 9 = 900um 2 = 2,0mm X = Custom</p>	<p>7 I/P fiber length</p> <p>05 = 0,5m 10 = 1,0m 15 = 1,5m XX = other</p>
<p>2 Package type</p> <p>1 = Integrated 2 = Plastic case 3 = Bare fiber type X = Custom type</p>	<p>4 O/P connector</p> <p>31 = SC/UPC 32 = SC/APC 11 = LC/UPC 12 = LC/APC 51 = FC/APC 52 = FC/APC 00 = No conn</p>	<p>6 O/P fiber</p> <p>0 = 250um 9 = 900um 2 = 2,0mm R = 250um ribbon X = Custom</p>	<p>8 O/P fiber length</p> <p>05 = 0.5m 10 = 1.0m 15 = 1.5m</p>
			<p>9 Fiber type</p> <p>35 = G.652.D 36 = G.657.A1 37 = G.657.A2</p>

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