



Planar Lightwave Circuit (PLC) Splitters

Planar Lightwave Circuits split optical power evenly over the entire single-mode operating window (1260-1650 nm). Split counts are available from 1x4 up to 2x32 and input/output fibers can be supplied with or without connectors.

Features

- Full spectrum (1260-1650 nm) operation
- Even split ratio over entire bandwidth
- Compact design
- Low PDL and temperature sensitivity
- High directivity

Applications

- Telecommunications
- CATV
- LAN
- Monitoring of networks

Specifications

PARAMETER	UNITS	VALUE			
		1x4	1x8	1x16	1x32
Operating Wavelength	nm	1260-1650			
Insertion Loss (IL)*	dB	≤ 7.4	≤ 10.8	≤ 14.3	≤ 17.4
Uniformity	dB	≤ 0.8	≤ 1.0	≤ 1.3	≤ 1.5
Return Loss (RL)	dB	≥ 50			
Directivity	dB	≥ 55			
PDL	dB	≤ 0.2		≤ 0.3	
Operating Temperature	°C	-40 to +85			
Storage Temperature	°C	-40 to +85			

* Without connectors. With connectors, add 0.3 dB (typical).

Packaging Information

PARAMETER	STANDARD				SMALL FORM FACTOR			
	1x4	1x8	1x16	1x32	1x4	1x8	1x16	1x32
Fiber Type	G.657.A1				G.657.A1			
Input/output Fiber	2 mm or 3 mm Loose Tube				900 μm Loose Tube			
Loose Tube Color	Yellow				White			
Loose Tube Material	PVC				Hytrel			
Housing Material	PVC				Stainless Steel			
Length (mm)	100	100	120	141	60	60	60	80
Width (mm)	80	80	80	114	7	7	12	20
Height (mm)	10	10	18	18	4	4	4	6

Ordering Information

PLC	1x4	9	1M	ULC
	Ports	Cable Diameter	Length	Output Connector
	1x2	9 = 900 μm	1M	ULC = LC/UPC
	1x4	2 = 2 mm	2M	ALC = LC/APC
	1x8	3 = 3 mm	3M	USC = SC/UPC
	1x16		4M	ASC = SC/APC
	1x32		5M	UFC = FC/UPC
	2x2			AFC = FC/APC
	2x4			XXX = No Connector
	2x8			
	2x16			
	2x32			

Qualifications

GOVERNING BODY	STANDARD CODE
Telcordia	GR-1209 and GR-1221