

- Small size, high reliability, wide operating wavelength range
- Application for EPON, GPON, FTTx networks
- G652D fiber
- Splitter ration from 1:4 to 1:16

Part number

PRPLC-S02-XXX-XXX-XXX-V	Planar light wave circuit splitter, with 0.9mm pigtail
1 2 3	
*1 indicate input pigtail connector: 00=without connector, FC=FC/UPC; FCA=FC/APC; LC=LC/UPC; LCA=LC/APC; SC=SC/UPC; SCA=SC/APC	
*2 indicate output pigtail connector: 00=without connector, FC=FC/UPC; FCA=FC/APC; LC=LC/UPC; LCA=LC/APC; SC=SC/UPC; SCA=SC/APC	
*3 indicate splitter capacity: 104=1X4;108=1X8;116=1X16...	

Performance

Parameters		Specification		
Operating wavelength (nm)		1260-1650		
Type		1X4	1X8	1X16
Insertion loss (dB)	No connector at output and input	<7.4	<10.6	-
	Input without connector, output with connector	-	<10.8	<14.3
Loss uniformity (dB)		<0.8	<1.0	<1.3
PDL (dB)		<0.2	<0.25	<0.3
Return loss (dB)		>55		
Isolation between outputs (dB)		>55		
Wavelength dependent Loss (dB)		<1.0		
Pigtail diameter(um)		> 900(Whole yarn uniformity < 20, The allowed error is 5%.)		
Pigtail length (cm)	Input and output without connector	150±3		
	Input without connector, output with connector	Input: 150±3, output: 60±3		
	Input and output splitter with connector	Input: 150± 3, output: 60±3		
Maximum difference between output fibers (cm)		<3cm		
Output color code		According to TIA/EIA-598-A standard		
Fiber type		ITU G652D		
Protective shell material		Stainless steel		
Maximum size (mm)		80(L) x 20(W) x 6(H)		
Operating temperature (°C)		-40°C to +85°C		
Storage Temperature (°C)		-40°C to +85°C		

Fiber performance

No.	Item	Unit	G652D
1	Mode-field diameter @1310nm	μm	9.2 $\pm$ 0.4
	Mode-field diameter @1550nm		10.4 $\pm$ 0.5
2	Cladding diameter	μm	125 $\pm$ 0.7
3	Core-cladding concentricity	μm	$\leq$ 0.5
4	Cladding non-circularity	%	$\leq$ 0.7
5	Coating diameter	μm	245 $\pm$ 5
6	Cladding-coating concentricity	μm	<12.0
7	Numerical aperture		0.14
8	Fiber cutoff wavelength	nm	$\lambda_{cc}\leq 1260$
9	PMD link value	ps/ $\sqrt{\text{km}}$	$\leq$ 0.06
9	PMD maximum individual fiber	ps/ $\sqrt{\text{km}}$	$\leq$ 0.1
10	Proof test (entire fiber length)	kpsi	$\geq$ 100
11	Attenuation @ 1310nm /1383nm	dB/km	$\leq$ 0.35
	Attenuation @ 1550nm /1625nm	dB/km	$\leq$ 0.21
12	Operating temperature	$^{\circ}\text{C}$	-60 ~ + 85
13	Fatigue coefficient (typical)		$\geq$ 20

Standards

Telcordia GR-1209

Telcordia GR-1221

Packing

Labeling on divider body	Write rated attenuator value, divider type, divider serial number.
Packing specification	Packed in carton boxes or plastic boxes; Each carton box or plastic box contains up to 2 optical splitters; On the carton box or plastic box, there must be a label: It is required to write the nominal attenuation value, the type of the splitter, the serial number of the splitter.

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