



PLC SPLITTER TRAY TYPE SPLITTER SERIES

AR-OSTRAY-SC-FC-LC/APC1 2X2-64

1. GENERAL

1.1 DESCRIPTION

Planar Light-wave Circuit Splitter (PLCS) is based on the wave circuit process of unique silica glass, with reliable precision aligned fiber pigtail in a miniature package. It provides a low cost distribution solution with small dimension and high reliability.

Tray splitter is with good optical circuit design and ensures the curvature radius of fiber as well as realization of channel capacity increase on optical circuit. It's installed in the 19" standard ODF and 19" standard cabinet. It's also able to finish the old product upgrading on space usage seamlessly. Tray splitter can be divided into pigtail type and adapter type. SC/LC/FC connectors are available, other connectors can be customerized.

Production type	Classification
Tray type splitter	PLC splitter

1.2 STANDARDS COMPLY

The production offered by ARTIC are designed, manufactured and tested according to the standards as follows:

GR-1209	Generic Requirements for Passive Optical Components
GR-1221	Generic Reliability Assurance Requirements for Passive Optical Components
EIA / TIA 598 B	Optical Fiber Cable Color Coding

1.3 APPLICATIONS ENVIRONMENT

Item	Value
Operation environment	-40 °C~+85 °C, 5%~85% RH
Installation temperature	-15 °C~+40 °C, 5%~85% RH
Storage environment	-40 °C~+85 °C, 5%~85% RH

2. CHARACTERISTICS

- 1.Low insertion loss, low PDL, high return loss.
- 2.Excellent uniformity over a wide wavelength range from 1260nm to 1650nm.
- 3.Working in temperature from -40°C to +85°C.

3. SPECIFICATIONS

3.1 DIMENSIONS

Split Ratio	1:2/2:2	1:4/2:4	1:8/2:8	1:16/2:32	1:32/2:32	1:64/2:64
W*D*H(mm)	288×180×25mm			288×180×50mm		288×180×100mm

3.2 OPTICAL AND CONFIGURATION SPECIFICATIONS

Item	Unit	Value						
		1:2	1:4	1:8	1:16	1:32	1:64	
Split Ratio	/	1:2	1:4	1:8	1:16	1:32	1:64	
Work waveleght	nm	1260~1650						
Insert Loss	Typical	dB	3.6	7.0	10.3	13.6	16.6	20.1
	Max	dB	4.3	7.4	10.7	13.9	17.2	21.5
Uniformity (Max)	dB	0.5	0.8	0.8	1.4	1.5	2.0	
PDL (Max)	dB	0.2	0.3	0.3	0.3	0.3	0.5	
TDL (Max)	dB	0.5						
Return Loss	dB	For APC ≥55/ for UPC ≥50						
Directivity	dB	≥55						
Fiber type	/	G652D, G657A or customized						
Fiber jacket	/	900 μm tight buffer						
In/out fiber lenght	m	Customized						
Connectors type	/	SC, FC, LC						

Item	Unit	Value						
		2:2	2:4	2:8	2:16	2:32	2:64	
Split Ratio	/	2:2	2:4	2:8	2:16	2:32	2:64	
Work waveleght	nm	1260~1650						
Insert Loss	Typical	dB	4.2	7.2	10.6	13.6	17.0	20.5
	Max	dB	4.5	7.7	11	14.8	17.9	21.5
Uniformity (Max)	dB	0.8	1.0	1.2	1.5	1.8	2.5	
PDL (Max)	dB	0.2	0.3	0.3	0.3	0.3	0.5	
TDL (Max)	dB	0.5						
Return Loss	dB	For APC ≥55/ for UPC ≥50						
Directivity	dB	≥55						
Fiber type	/	G652D, G657A or customized						
Fiber jacket	/	900 μm tight buffer						
In/out fiber lenght	m	Customized						
Connectors type	/	SC, FC, LC						

4. PACKAGE

Standard - 1 pcs in a box