

Planar Lightwave Circuit Splitter

Description

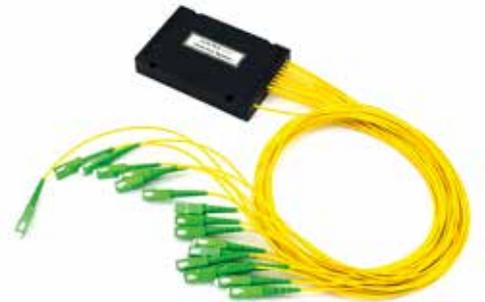
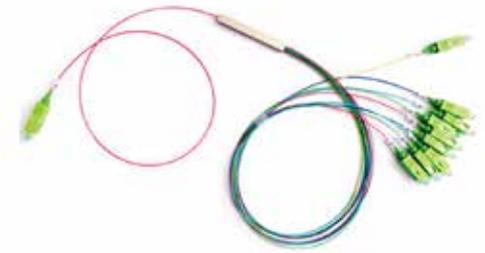
The single-mode Planar Light wave Circuit Splitter (PLCS) is developed based on unique quartz glass waveguide and processes with reliable precision aligned fiber pigtail in a miniature package. It provides a low cost light distribution solution with small form factor and high reliability. The PLCS has the high performance in terms of low insertion loss, low PDL, high return loss and excellent uniformity over a wide wavelength range from 1260nm to 1620nm and working in temperature from -40°C to +85°C. KOC's PLCS has standard configurations of 1x2, 1x4, 1x8, 1x16 and 1x32 configurations, as well as customized structures of 2x16, 2x32 and so on.

Features

- Low insertion loss and low PDL
- Wide operating wavelength range
- Compact design
- High reliability
- High channel counts
- Wide operating temperature range
- Customized packaging and configuration

Application

- FTTX Systems
- LAN, WAN and Metro Networks
- CATV Networks
- Analog/Digital Passive Optical Networks
- Other applications in fiber optic systems



Specification

Item	Specification											
	1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x48	1x64	1x128
Port Configuration	1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x48	1x64	1x128
Operating Wavelength(nm)	1260 ~ 1650											
Fiber Type	G652D or G657A											
IL(dB) (P) Max	3.8	6.1	7.1	9.0	10.2	12.5	13.5	15.5	16.5	18.4	20.2	23.8
LOSS Uniformity(dB) Max	0.4	0.4	0.6	1.6	0.8	1.2	1.2	1.5	1.5	2.0	2.0	2.5
PDL(dB) Max	0.2	0.2	0.2	1.2	0.2	0.25	0.25	0.3	0.3	0.4	0.4	0.4
Directivity(dB) Max	55											
Return Loss(dB) Max	55											
Wavelength Dependent Loss(dB) Max	0.5	0.5	0.5	1.5	0.5	0.8	0.8	0.8	0.8	1.0	1.0	1.2
Temperature Stability (-40~85°C)(dB) Max	0.5	0.5	0.5	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Operation Temperature	-40 ~ 85°C											
Storage Temperature	-40 ~ 85°C											

Specification

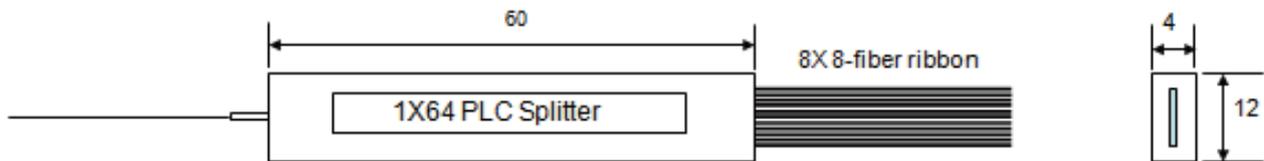
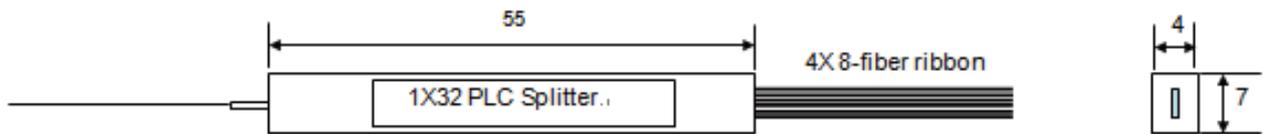
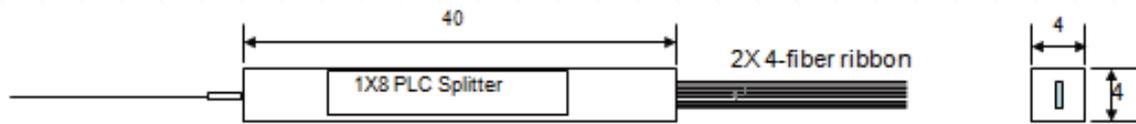
Item	Specification						
Port Configuration	2x2	2x4	2x8	2x16	2x32	2x64	2x128
Operating Wavelength(nm)	1260 ~ 1650						
Fiber Type	G652D or G657A						
IL(dB) (P/) Max	4.2	7.6	10.5	13.8	17	20.8	24.5
LOSS Uniformity(dB) Max	0.9	1.1	1.2	1.5	1.8	2.2	2.5
PDL(dB) Max	0.2	0.2	0.3	0.3	0.4	0.4	0.4
Directivity(dB) Max	55						
Return Loss(dB) Max	55						
Wavelength Dependent Loss(dB) Max	0.5	0.5	0.5	0.8	0.8	1.0	1.2
Temperature Stability (-40~85°C)(dB) Max	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Operation Temperature	-40 ~ 85°C						
Storage Temperature	-40 ~ 85°C						

PACKAGE DIMENSIONS & PIGTAIL STYLE

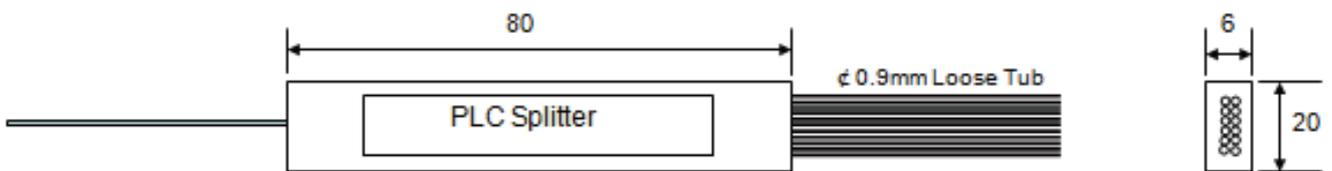
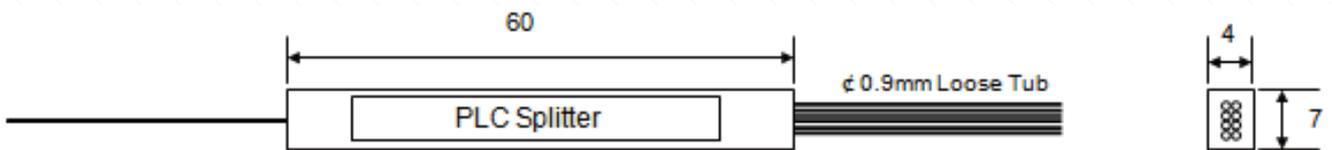
TYPE	Basic type PLCS	SFF Type PLCS (For \varnothing 0.9mm Loose Tub)	ABS Module Type PLCS		Blade Package PLCS	Rack Mount PLCS
			For Pigtail \varnothing 2.0mm	For Pigtail \varnothing 3.0mm		
1x2	4*4*40	4*7*60	100*80*10	100*80*10	130*100*25	480*240*45
1x3	4*4*40	4*7*60	100*80*10	100*80*10	130*100*25	480*240*45
1x4	4*4*40	4*7*60	100*80*10	100*80*10	130*100*25	480*240*45
1x6	4*4*40	4*7*60	100*80*10	100*80*10	130*100*50	480*240*45
1x8	4*4*40	4*7*60	100*80*10	100*80*10	130*100*102(76)	480*240*45
1x12	4*7*60	4*7*60	120*80*18	120*80*18	130*100*206(154)	480*240*89
1x16	4*7*60	4*12*60	120*80*18	120*80*18	/	/
1x24	4*7*60	6*20*80	120*80*18	120*80*18	130*100*25	480*240*45
1x32	4*7*60	6*20*80	120*80*18	120*80*18	130*100*25	480*240*45
1x48	6*12*60	6*40*100	140*115*18	140*115*18	130*100*50	480*240*45
1x64	6*12*60	6*40*100	140*115*18	140*115*18	130*100*102(76)	480*240*45
1x128	N/A	N/A	140*115*18	140*115*18	130*100*206(154)	480*240*89

PACKAGE DIMENSIONS & PIGTAIL STYLE

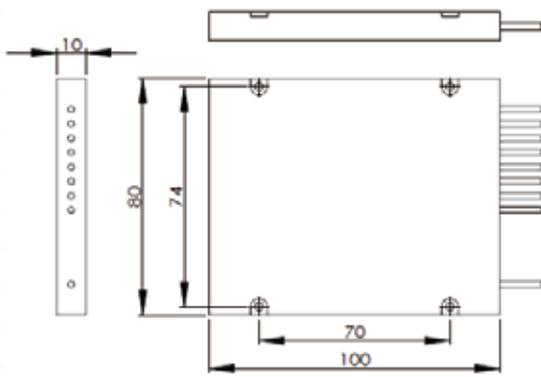
TYPE	Basic type PLCS	SFF Type PLCS (For \varnothing 0.9mm Loose Tub)	ABS Module Type PLCS		Blade Package PLCS	Rack Mount PLCS
			For Pigtail \varnothing 2.0mm	For Pigtail \varnothing 3.0mm		
2x2	4*4*50	4*7*60	100*80*10	100*80*10	130*100*25	480*240*45
2x4	4*4*50	4*7*60	100*80*10	100*80*10	130*100*25	480*240*45
2x8	4*4*50	4*7*60	100*80*10	120*80*18	130*100*25	480*240*45
2x16	4*7*60	4*12*80	120*80*18	120*80*18	130*100*50	480*240*45
2x32	4*7*60	6*20*80	120*80*18	140*115*18	130*100*102(76)	480*240*45
2x64	N/A	N/A	140*115*18	140*115*18	130*100*206(154)	480*240*89
2x128	N/A	N/A	141*115*18	141*115*18	/	/



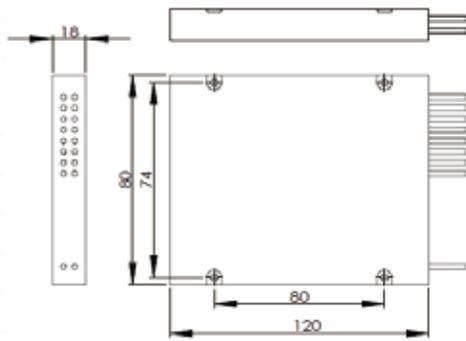
Basic Type PLC Splitter



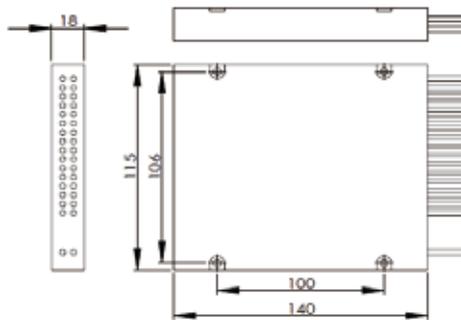
SFF Type PLC Splitter



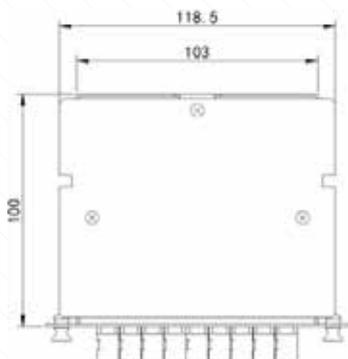
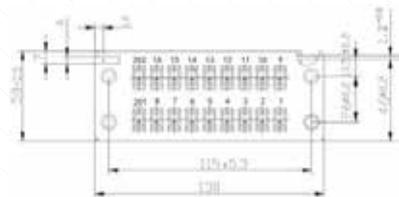
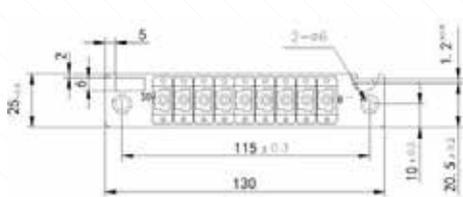
Module Type PLC Splitter(100*80*10mm)



Module Type PLC Splitter(120*80*18mm)



Module Type PLC Splitter(140*115*18mm)



Blade Package
PLCS
(130*100*25)

Blade Package
PLCS
(130*100*50)

