



MPFS series Planar Lightwave Circuit Splitter

Multi Port Fiber Splitter (MPFS) series Planar lightwave circuit (PLC) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. All products meet GR-1209-CORE and GR-1221-CORE requirements.

Features

- Low Insertion loss
- Low PDL
- Compact Design
- Good channel-to-channel uniformity
- Wide Operating Wavelength: 1260nm ~ 1650nm
- Wide Operating Temperature: -40℃ to 85℃
- High Reliability and Stability





Specifications

Table 1 – 1×N PLC Splitter

Parameter		Unit	1X2	1X4	1X8	1X16	1X32	1X64	1X128
Fiber Type		--	G657A1 or customer specified						
Operating Wavelength		nm	1260~1650						
Insertion Loss	Typ	dB	3.8	7.0	10.0	13.0	16.5	20.0	25.0
	Max	dB	4.0	7.4	10.5	13.5	17.0	21.0	25.5
Loss Uniformity	Max	dB	0.5	0.6	0.8	1.2	1.5	2.0	2.6
Return Loss	Min	dB	50						
PDL	Max	dB	0.2	0.3		0.5			0.8
Directivity	Min	dB	55						
WDL	Max	dB	0.3			0.5			
TDL	Max	--	0.5						
Operating Temperature		℃	-40~+85						
Storage Temperature		℃	-40~+85						
Packaging Dimension		mm	40x4x4			50x4x4	50x7x4	60x12x4	/
Module Dimension		mm	100x80x10			120x80x18		141x115x18	

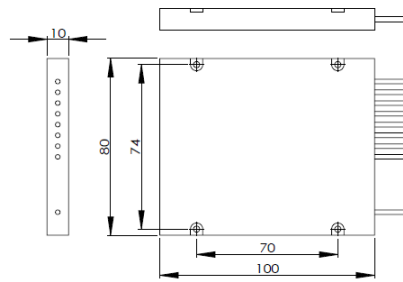
Table 2 – 2×N PLC Splitter

Parameter		Unit	2X2	2X4	2X8	2X16	2X32	2X64	2X128
Fiber Type		--	G657A1 or customer specified						
Operating Wavelength		nm	1260~1650						
Insertion Loss	Typ	dB	4.0	7.3	10.5	14.0	17.2	20.8	25.3
	Max	dB	4.2	7.6	11.0	14.6	17.9	21.8	25.8
Loss Uniformity	Max	dB	0.8	1.0	1.2	1.5	1.8	2.5	3.0
Return Loss	Min	dB	50						
PDL	Max	dB	0.2	0.3			0.5		0.8
Directivity	Min	dB	55						
WDL	Max	dB	0.3			0.5			
TDL	Max	--	0.5						
Operating Temperature		℃	-40~+85						
Storage Temperature		℃	-40~+85						
Packaging Dimension		mm	40x4x4			50x4x4	50x7x4	60x12x4	/
Module Dimension		mm	100x80x10			120x80x18		141x115x18	

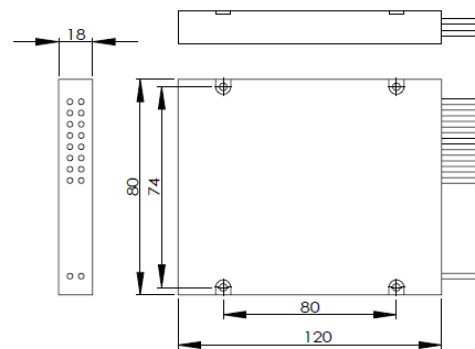
Notes: 1. Specified without connectors. 2. Add an additional 0.15dB loss per connector.

Mechanical Dimensions

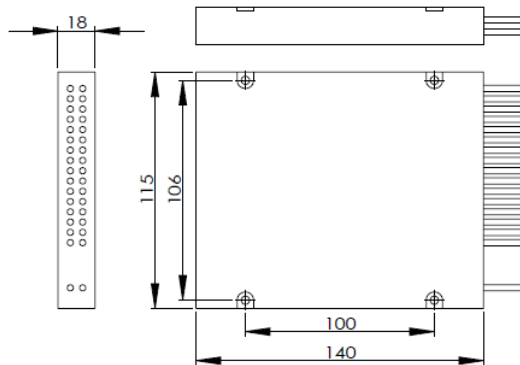
PLC Splitter Module



100X80X10



120X80X18



140X115X18



Ordering information



PLC Splitter

MPFS — ☐ — ☐ — ☐ — ☐ — ☐ — ☐

Wavelength _____
P= P grade S=S grade

Output Ports _____
n=n ports

Pigtail _____
0=250um fiber 1=0.9mm tight buffer 3=3mm cable

Package _____
O=100x80x10 P=120x80x18 S=140x115x18 T=19" 1U rack

Pigtail Length _____
05~99=0.5~9.9m

Connector _____
FU=FC/UPC FA=FC/APC LU=LC/UPC LA=LC/APC
SU=SC/UPC SA=SC/APC 0=None

Note: The specification will change without notice.