

PASSIVES DATA SHEET

FTTx LGX Optical Splitters



Champion ONE's FTTx optical splitters are designed to accommodate easy installation access to GPON/EPON/RFoG optical distribution networks (ODN). The splitters are broad spectrum single mode fiber devices that pass all the standard wavelengths of current and future Passive Optical Network (PON) technologies. These splitters are packaged in standard LGX boxes for ease of deployment.

Technical Specifications

Parameters	1x2	1x4	1x8	1x16	1x32
Operating Wavelength (nm)	1260–1650	1260–1650	1260–1650	1260–1650	1260–1650
Insertion Loss (dB)	4.0	7.4	10.7	13.7	16.9
Loss Uniformity (dB)	0.4	0.6	0.8	1.0	1.5
Polarization Dependent Loss (dB)	0.1	0.1	0.1	0.2	0.25
Return Loss (dB)	55	55	55	55	55
Directivity (dB)	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.3	0.5
Temperature Stability (@ -40 to 85) (dB)	0.5	0.5	0.5	0.5	0.5
Operating and Storage Temperature (°C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Fiber Type	G657A1	G657A1	G657A1	G657A1	G657A1
Connector Type	SC/APC	SC/APC	SC/APC	SC/APC	SC/APC
Dimensions (mm LxWxH)	Single LGX 130 x 100 x 28.5	Single LGX 130 x 100 x 28.5	Single LGX 130 x 100 x 28.5	Double LGX 130 x 100 x 58	Triple LGX 130 x 100 x 87

Ordering Information

C1 Part Number	Description
PLCS-L1-02-SA	FTTx splitter, LGX 1 Svc, 1x2 1260-1650nm, SC/APC, LGX
PLCS-L1-04-SA	FTTx splitter, LGX 1 Svc, 1x4 1260-1650nm, SC/APC, LGX
PLCS-L1-08-SA	FTTx splitter, LGX 1 Svc, 1x8 1260-1650nm, SC/APC, LGX
PLCS-L1-16-SA	FTTx splitter, LGX 1 Svc, 1x16 1260-1650nm, SC/APC, LGX
PLCS-L1-32-SA	FTTx splitter, LGX 1 Svc, 1x32 1260-1650nm, SC/APC, LGX

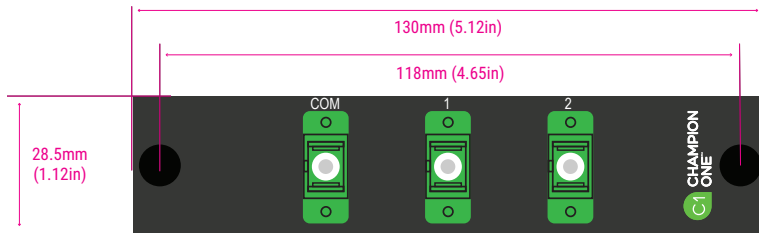
Mounting Options



C1 Part Number	Description
ZS-LGX3R-14S-CHASSIS-1923	LGX 3RU Chassis for 14 LGX Modules and fiber mgmt. - 19 or 23" rack

Physical Diagrams

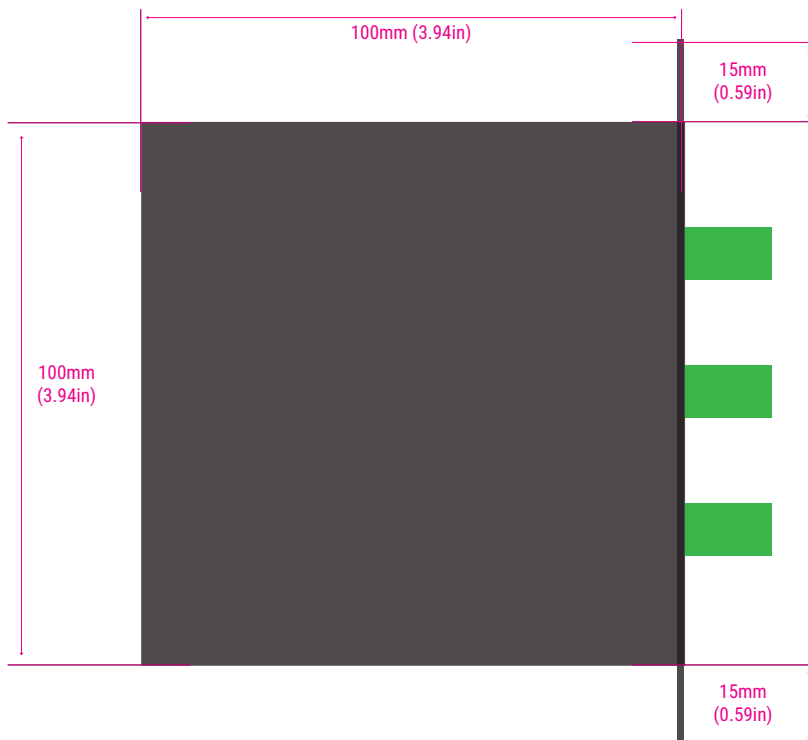
PLCS-L1-02-SA



Front View

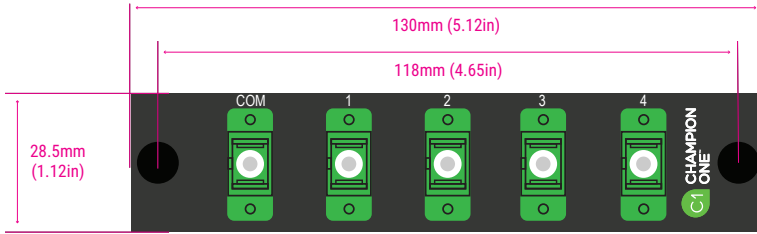


Side View



Top View

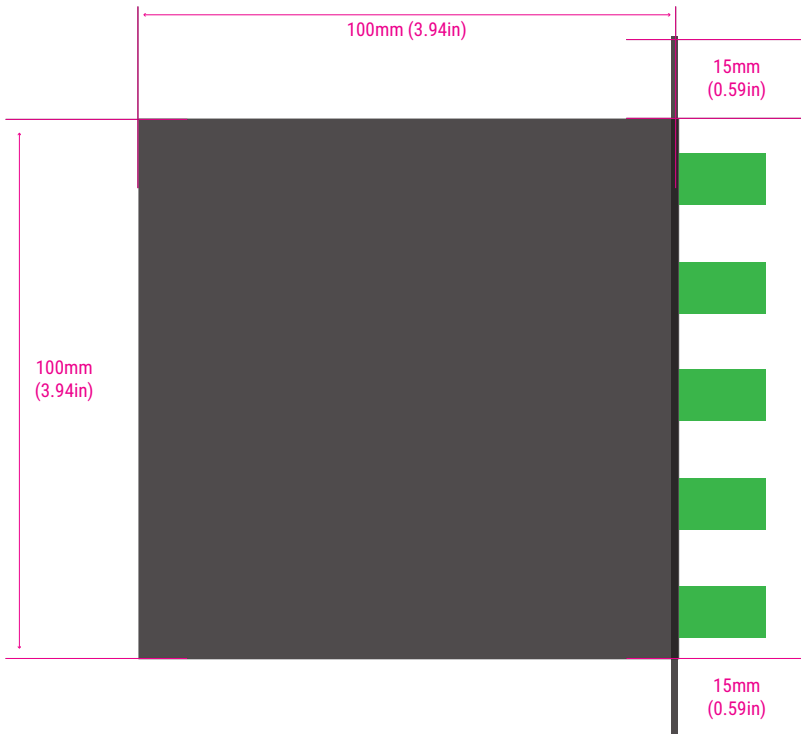
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Front View

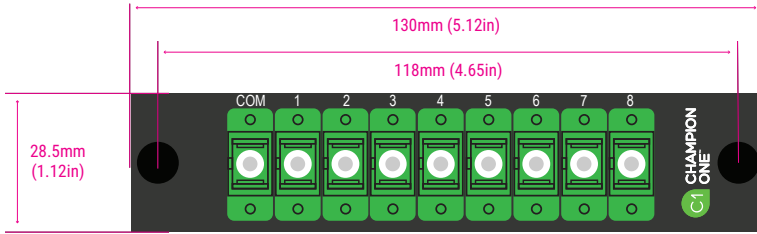


Side View

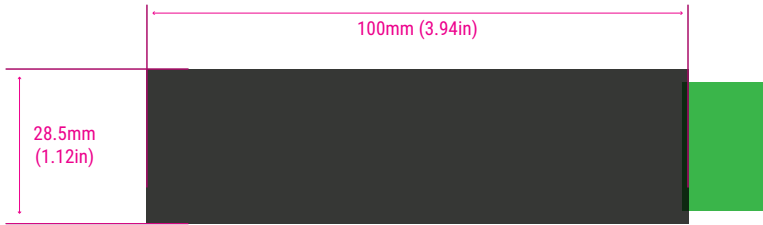


Top View

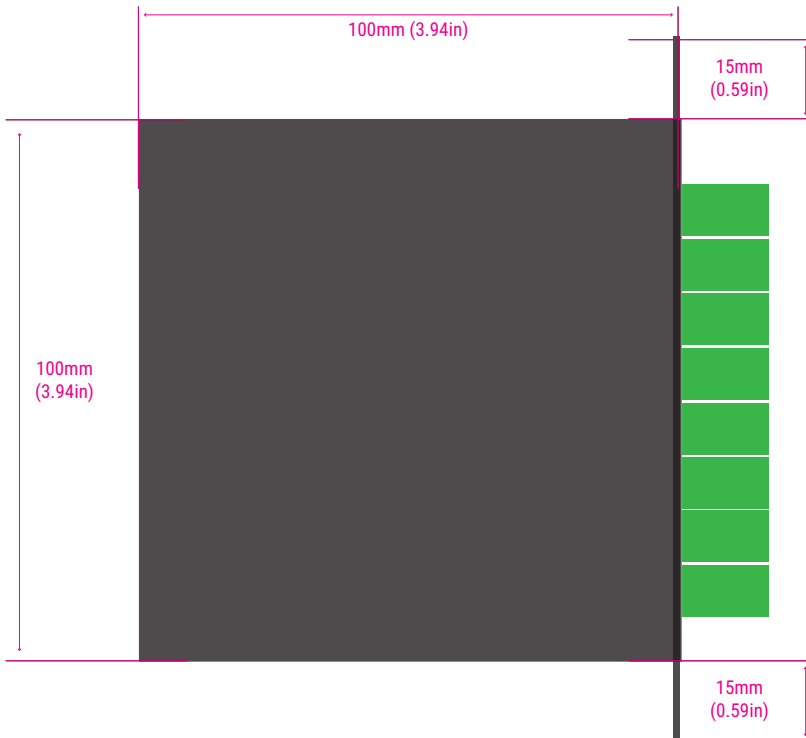
PLCS-L1-08-SA



Front View

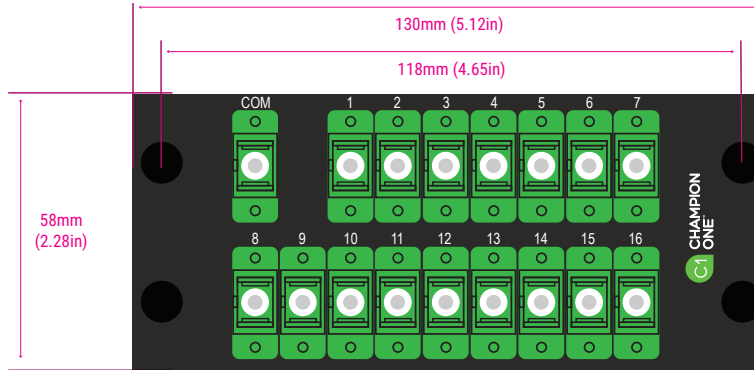


Side View



Top View

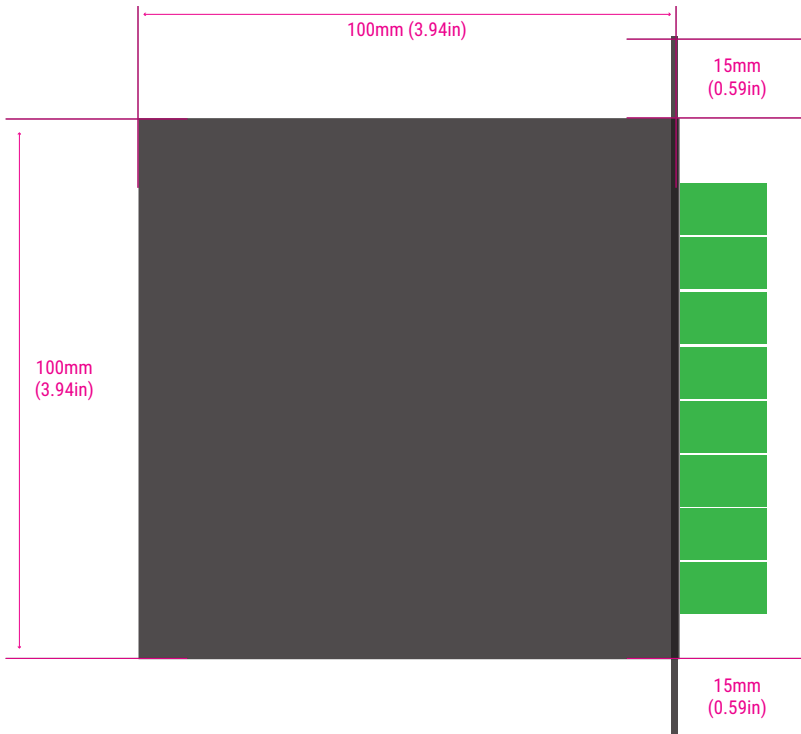
PLCS-L1-16-SA



Front View

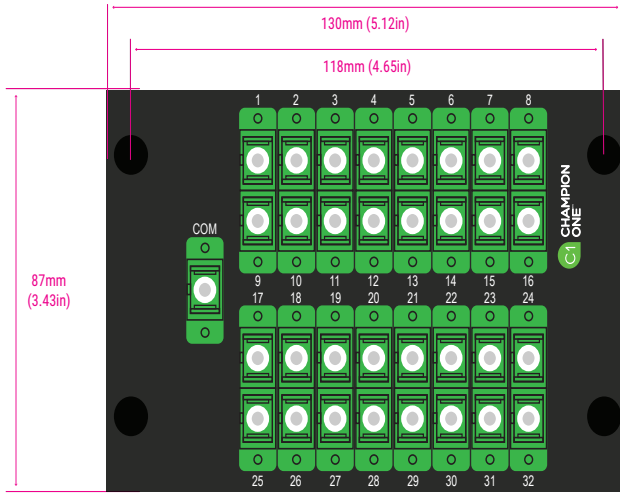


Side View

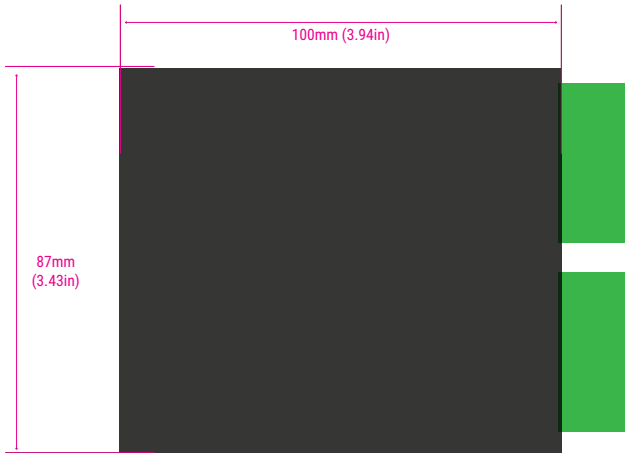


Top View

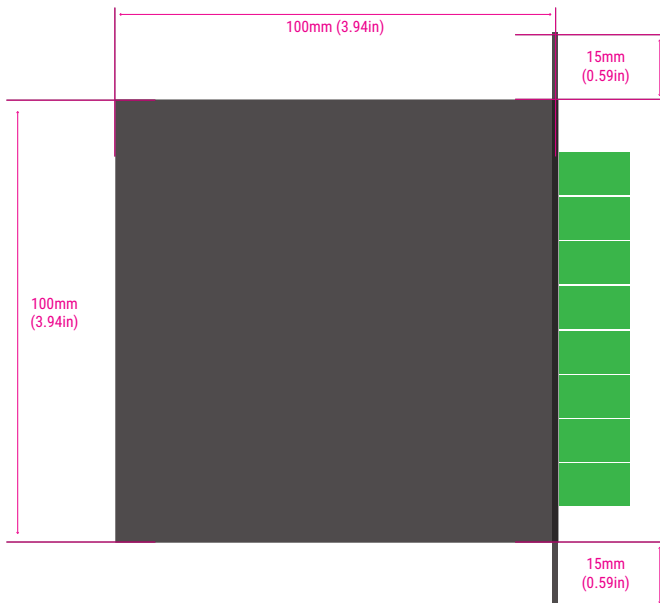
PLCS-L1-32-SA



Front View



Side View



Top View