

PLC Splitter LGX BOX

Description

Broadex Technologies' Planar Lightwave Circuit (PLC) splitter is a passive optical power management device that uses silica waveguide structures to evenly split an optical signal from 1 or 2 input channels and distribute the split signal to N multiple output channels, commonly described as 1xN or 2xN splitters. products are Telcordia GR-1221-CORE qualified, and RoHS compliant.

Broadex Technologies offers a wide variety of splitter products with LGX box and rack mount packaging including adapters which allow for quick and convenient integration into fiber splice enclosures, distribution boxes, data integration cabinets and more. A custom design and manufacturing service is available to maximize ease of integration.

Features

- Low insertion loss and PDL
- Excellent channel uniformity
- Wide operating wavelength and temperature range
- High reliability and high stability
- Telcordia GR-1221 and GR-1209 qualified

Applications

- Telecom, datacom
- Local Area Networks (LANs)
- Cable TV (CATV)
- Local Convergence points (LCP)
- FTTX



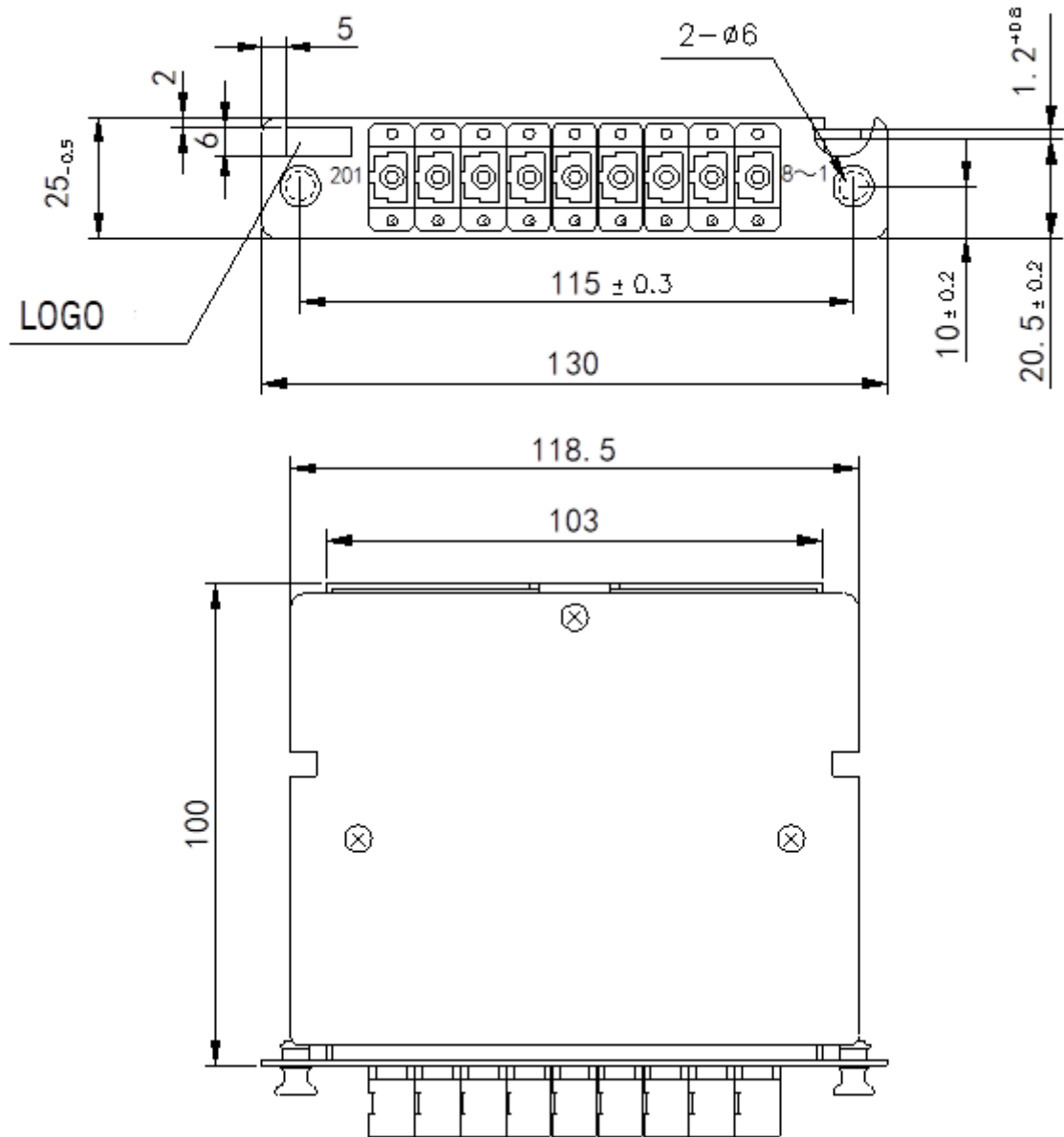
Specifications

| Parameters | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 | |
|-----------------------------|---------|------------|-------|---------|-------|---------|----------|------|
| Operating Wavelength (nm) | | 1260-1650 | | | | | | |
| Insertion Loss (dB) | Typical | 4.0 | 7.3 | 10.5 | 13.8 | 16.8 | 20.5 | |
| | Max | P | 4.3 | 7.5 | 11.0 | 14.0 | 17.0 | 21.0 |
| | | S | 4.5 | 7.7 | 11.2 | 14.2 | 17.5 | 21.5 |
| Loss Uniformity (dB) | Typical | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 | 1.2 | |
| | Max | 0.6 | 0.6 | 0.8 | 1.2 | 1.5 | 2.5 | |
| Return Loss (dB)(P/S) | | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | |
| PDL (dB) | Typical | 0.1 | 0.1 | 0.15 | 0.15 | 0.15 | 0.2 | |
| | Max | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | |
| Directivity (dB) | Min | 55 | 55 | 55 | 55 | 55 | 55 | |
| Operating Temperature (°C) | | -40 to+85 | | | | | | |
| Storage Temperature (°C) | | -40 to +85 | | | | | | |
| Packaging Size (LxWxH) (mm) | | 60x7x4 | | 60x12x4 | | 80x20x6 | 100x40x6 | |

| Parameters | | 2x2 | 2x4 | 2x8 | 2x16 | 2x32 | 2x64 | |
|-----------------------------|-----|------------|-------|---------|-------|---------|----------|------|
| Operating Wavelength (nm) | | 1260-1650 | | | | | | |
| Insertion Loss (dB) | Max | P | 4.4 | 8.0 | 11.7 | 14.7 | 17.9 | 21.5 |
| | | S | 4.7 | 8.3 | 12.0 | 15.0 | 18.2 | 22.0 |
| Loss Uniformity (dB) | Max | 1.0 | 1.2 | 1.5 | 1.8 | 2.0 | 2.5 | |
| Return Loss (dB)(P/S) | Min | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | 55/50 | |
| PDL (dB) | Max | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | |
| Directivity (dB) | Min | 55 | 55 | 55 | 55 | 55 | 55 | |
| Operating Temperature (°C) | | -40 to+85 | | | | | | |
| Storage Temperature (°C) | | -40 to +85 | | | | | | |
| Packaging Size (LxWxH) (mm) | | 60x7x4 | | 80x12x4 | | 80x20x6 | 100x40x6 | |

- Notes: 1. All measurements were done at room temperature, and specifications include connectors.
 2. S: standard, P: premium

Mechanical drawing:



Packaging:

Ordering Information

| BPSB | -XXX | -XX | -X | -X |
|------------|----------------------|----------------|----------------------|-----------------------|
| B=Broadex | Input & Output Count | BOX Type | Input Connector Type | Output Connector Type |
| P=PLC | 104=1x4 | 01=1U Rack | 0=None | 0=None |
| S=Splitter | 108=1x8 | 02=2U Rack | 1=FC/UPC | 1=FC/UPC |
| B=Box | | 03=3U Rack | 2=FC/APC | 2=FC/APC |
| | 164=1x64 | 04=LGX | 3=SC/UPC | 3=SC/UPC |
| | 204=2x4 | 05=ODF | 4=SC/APC | 4=SC/APC |
| | | XX= Customized | 5=LC/UPC | 5=LC/UPC |
| | 264=2x64 | | 6=LC/APC | 6=LC/APC |
| | | | X=Customized | X=Customized |

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