

Blockless PLC Splitter

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.

The Blockless PLC Splitter package features 900um loose tube fiber protection on the input and output fibers and can be provided with a selection of connectors at fiber termination, making it suitable for use directly in distribution boxes or network cabinets.

Features

- Low insertion loss and PDL
- Excellent channel uniformity
- Compact size
- Wide operating wavelength and temperature range
- High power tolerance
- 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
- Test Equipment



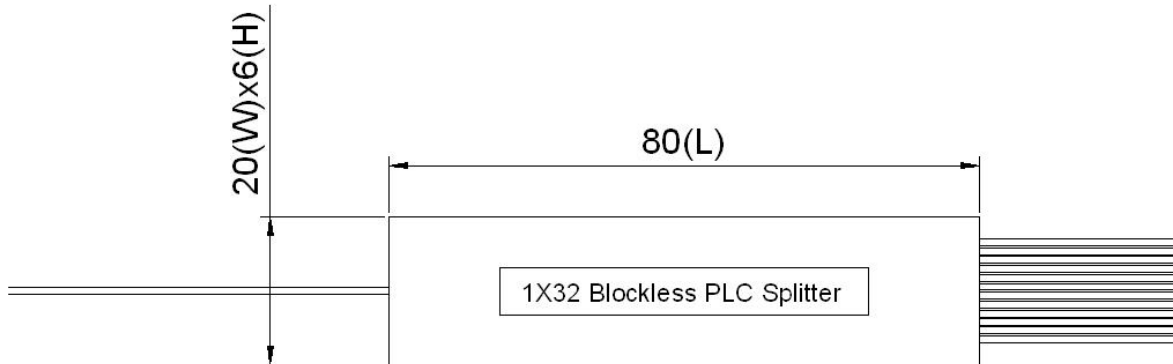
Specifications

| 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:**

| BPSS | -XXX | -X | -XX | -X | -XX | -X | -X |
|------------|----------------------|---------------------------------|--------------------------------|----------------------------------|---------------------------------|--------------------------------|---------------------------------|
| B=Broadex | Input & Output Count | Input Tube Type B=250µm Bare | Input Fiber Length 12=1.2mm | Output Tube Type B=250µm Bare | Output Fiber Length 12=1.2mm | Input Connector Type 0=None | Output Connector Type 0=None |
| P=PLC | 104=1x4 | Fiber | 15=1.5mm | Fiber | 15=1.5mm | 1=FC/UPC | 1=FC/UPC |
| S=Splitter | 108=1x8 | L=900µm Loose | XX=Customized | L=900µm Loose | 15=1.5mm | 2=FC/APC | 2=FC/APC |
| S=Small | | Tube | | Tube | XX=Customized | 3=SC/UPC | 3=SC/UPC |
| | 164=1x64 | T=900µm Tight | | | | 4=SC/APC | 4=SC/APC |
| | 204=2x4 | Buffer | | | | 5=LC/UPC | 5=LC/UPC |
| | | | | | | 6=LC/APC | 6=LC/APC |
| | 264=2x64 | | | | | X=Customized | X=Customized |

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