**PLC SPLITTERS**

**Description**

PLC splitters are based on the Planar Waveguide Technology. They provide a cost effective and space saving networking solution. They are key components in FTTX networks and are responsible to distribute the signal from central office to numbers of premises. They have very wide range of operating wavelength from 1260nm to 1620nm. With its compact size, these splitters can be utilized in in-ground and aerial pedestals as well as rack mount systems.

Our PLC splitters feature low insertion loss, low polarization dependent loss, and high port uniformity. The PLC splitters are available in a variety of configurations, pre-terminated and pre-package in ruggedized cassettes, compact square tubes or flat tubes.

**Features**

- Low loss
- Low polarization dependence
- Environmentally stable
- Excellent uniformity
- Telcordia GR-1221 and GR-1209

**Applications**

- FTTX
- Passive optical networks
- CATV
- LAN, WAN & Metro networks
- Test instrument

**Specifications**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Unit</th>
<th>Value/Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Wavelength</td>
<td>nm</td>
<td>1260 - 1650, others on request</td>
</tr>
<tr>
<td>Port Configuration</td>
<td>-</td>
<td>1x2, 1x4, 1x8, 2x4, 2x8, 1x16, 2x16, 1x32, 2x32, 1x64, 2x64</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>dB</td>
<td>≤4.0, ≤7.3, ≤10.5, ≤7.6, ≤11.0, ≤13.7, ≤14.4, ≤16.9, ≤17.5, ≤21.0, ≤21.0</td>
</tr>
<tr>
<td>Uniformity</td>
<td>dB</td>
<td>≤0.4, ≤0.6, ≤0.8, ≤1.0, ≤1.2, ≤1.2, ≤1.5, ≤1.5, ≤1.8, ≤2.0, ≤2.2</td>
</tr>
<tr>
<td>PDL</td>
<td>dB</td>
<td>≤0.2, ≤0.2, ≤0.2, ≤0.2, ≤0.2, ≤0.25, ≤0.3, ≤0.3, ≤0.4, ≤0.35, ≤0.4</td>
</tr>
<tr>
<td>Directivity</td>
<td>dB</td>
<td>≥55</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>°C</td>
<td>-20 ~ +70</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>°C</td>
<td>-40 ~ +85</td>
</tr>
<tr>
<td>Max. Power</td>
<td>mW</td>
<td>300</td>
</tr>
<tr>
<td>Lead Length</td>
<td>m</td>
<td>1, others on request</td>
</tr>
<tr>
<td>Package Type</td>
<td></td>
<td>Box, square tube with bare ribbon, flat tube with 900um fibers</td>
</tr>
<tr>
<td>Dimension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cassette</td>
<td>mm</td>
<td>100x80x10, 120x80x18, 140x115x18</td>
</tr>
<tr>
<td>Sq. Tube</td>
<td>mm</td>
<td>40x4x4, 50x4x4, 50x7x4, 60x7x4, 60x12x4, N.A.</td>
</tr>
<tr>
<td>Flat Tube</td>
<td>mm</td>
<td>50x7x4, 60x7x4, 60x12x4, 80x20x6, N.A.</td>
</tr>
</tbody>
</table>

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### Dimensional Drawing

**Square Tube Package with ribbon fiber outputs**

- 40 units
- 8-fiber ribbon

**Flat Tube Package with 900um fiber outputs**

- 60 units
- 0.9mm fiber

**Cassette Package with 2mm fiber outputs**

- 100X80X10 units
Dimensional Drawing

Cassette Package with 2mm fiber outputs

Ordering Information

Part Number: **PLC-208ST 1 1 LU- 4 2 LU 1 3**

1. **Configuration**
   - 102=1x2, 104=1x4, 108=1x8, 208=2x8, 116=1x16, 232=2x32, etc.

2. **Package**
   - BX=Box, ST=Square Tube, FT=Flat Tube

3. **Input Fiber Type**
   - 1=250um, 2=900um, 3=2.0mm

4. **Input Fiber Length**
   - Length in meter, i.e. 1=1m, 1.5=1.5m

5. **Input Connector**
   - Blank=no connector, LU=LC/UPC, SU=SC/UPC, SA=SC/APC, etc.

6. **Output Fiber Type**
   - 1=250um, 2=900um, 3=2.0mm, 4=Bare Ribbon

7. **Output Fiber Total Length**
   - Length in meter, i.e. 1=1m, 1.5=1.5m

8. **Output Connector**
   - Blank=no connector, LU=LC/UPC, SU=SC/UPC, SA=SC/APC, etc.

9. **Fan-out Length in meter**
   - For bare ribbon output only, and blank for all other outputs

10. **Fan-out Fiber Jacket Type**
    - 2=900um, 3=2.0mm. For bare ribbon output only, and blank for all other outputs

Products manufactured in ISO 9001 certified facilities