

Best World-Wide Photonics Technologies

OptoNest Corp., Splitter Module

OptoNest MPO Splitter

SPECIFICATIONS



1. General Description

This specification covers the requirement of MPO Splitter.

- Compact sized Splitter for various communication system
- High-density MPO Splitter including fanouts, pigtails and connectorized cable.
- The MPO Splitter can be provided with 4,8,16,32 fiber connectors with tight-buffer, 2mm/3mm cables. Customized product is also available.
- The MPO Connector has reliable and easy connection through its push on function.

2. Operating Conditions

| <i>Parameter</i> | <i>Unit</i> | <i>Specifications</i> |
|---------------------|-------------|-----------------------|
| Wavelength Range | nm | 1260~1650 |
| Maximum Input Power | mW | 500 |

Table 1. Operating Conditions

3. Features

- Low IL, PDL
- Minimized size using MPO connector
- No needs of number of cables
- Provide quick connection and install
- Easy maintenance

4. Application

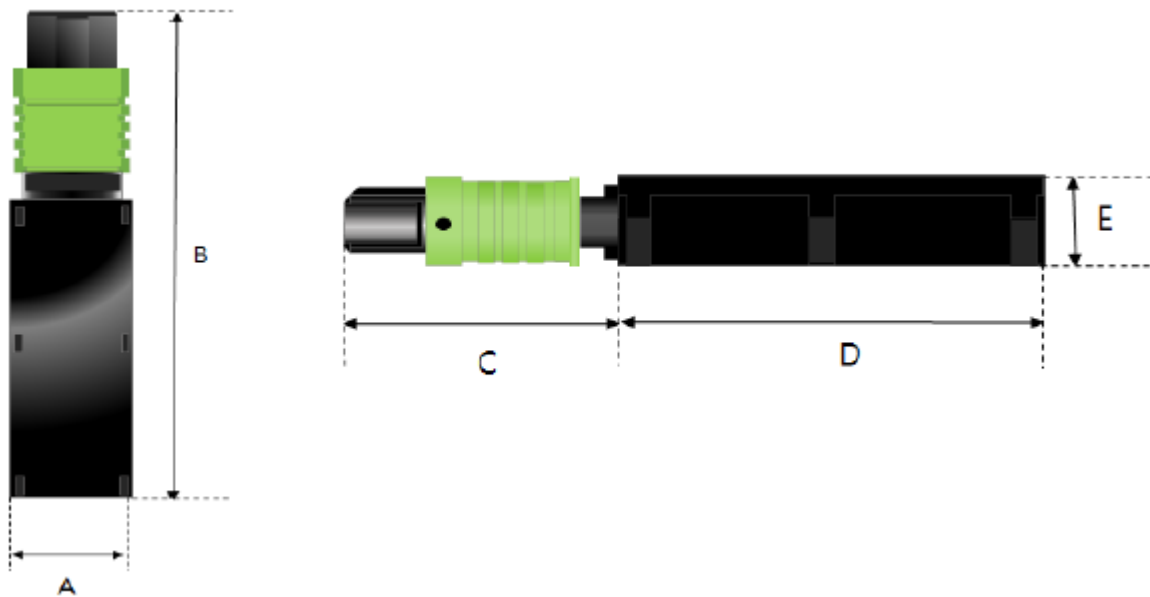
- FTTx, CATV Networks
- Telecommunication Networks
- Data center Networks



5. Specification

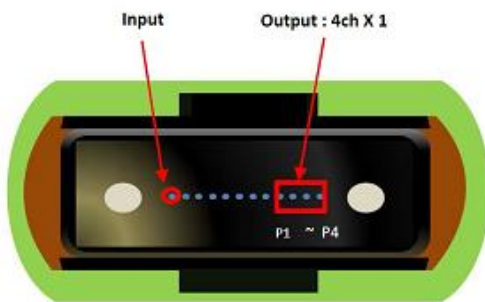
| Parameter | Condition | unit | Specification | | | |
|-------------------|---------------------------------|------|---------------|-------------|-------------|-------------|
| | | | 1 x 4 | 1 x 8 | 1 x 16 | 1 x 32 |
| Insertion loss | All ports @1.31,1.55 μ m | dB | ≤ 7.5 | ≤ 10.8 | ≤ 13.8 | ≤ 17.5 |
| Uniformity of I.L | @1.31,1.55 μ m | dB | ≤ 0.8 | ≤ 1.0 | ≤ 1.0 | ≤ 1.3 |
| PDL | All ports @1.31,1.55 μ m | dB | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 | ≤ 0.3 |
| Return loss | All ports @1.31,1.55 μ m | dB | 55dB | | | |

6. Dimension

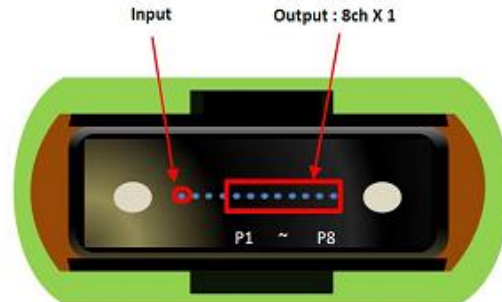


| Dimension(mm) | A | B | C | D | E |
|-------------------------------|------|-------------|------|------|-----|
| 1 x 4 1 x 8 | 11.3 | ≤ 65.0 | 23.0 | 31.2 | 8.0 |
| 1 x 16 1 x 32(TBD) | 11.3 | ≤ 80.0 | 23.0 | 42.0 | 8.0 |
| ** Dimension might be changed | | | | | |

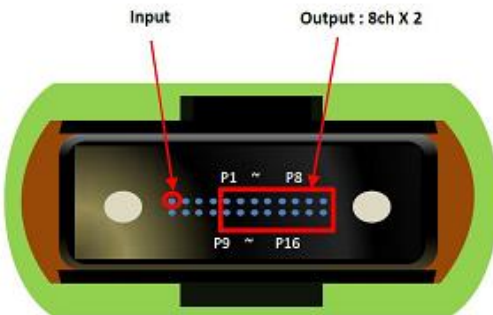
7. Port Arrangement



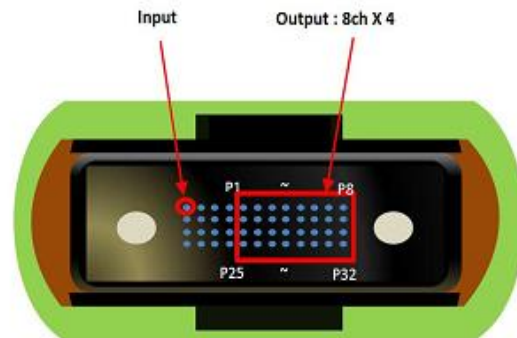
<1X4 Splitter MPO>



<1X8 Splitter MPO>



<1X16 Splitter MPO>



<1X32 Splitter MPO>

8. Serial number

Serial product number shall be named in the following format.

Serial product number : Example ; MS17B104-000

- ✓ MS : Product Name[MPO Splitter]
- ✓ 17 : Manufacturing Year[2017]
- ✓ B : Month
- ✓ 104 : Product type [1 x 4(250) : 104, 1 x 8(250) : 108, 1 x 16(127) : 116, 1 x 32(127) : 132]
- ✓ 000 : Sequential No.

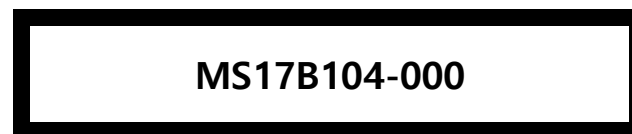
9. Label

Company label and S/N label shall be attached with the product in the following manner.

Front side : Company label



Back side : S/N label



10. Packing

Products shall be packed into a suitable case in order to prevent damage during transportation and storage.

11. Others

When the problem is caused concerning this specification sheet, both companies will confer in sincerity for the solution.