Multimode Microlens Array

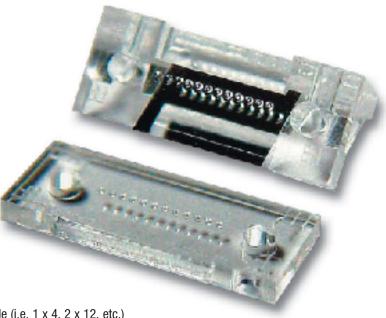
P₁L

12ch Flat/P1L12A 12ch Right Angle/P1L12C

Flat and Right Angle Type Micro Lens Arrays Provide Low Cost Optical Connections in Free Space Applications

Features

- Easy alignment with high precision positioning holes based on MT guide pins
- · Low cost achieved by high precision injection molding
- · Anti-reflective (AR) coating available
- Insertion loss (IL) can be reduced through customization
- Custom lens and various channel configurations available (i.e. 1 x 4, 2 x 12, etc.)



Specifications

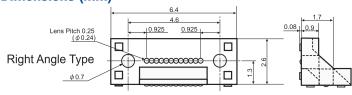
| Туре | Flat (Collimator Type) | Flat (Focuser Type) | Right Angle |
|-------------------------|-------------------------|-------------------------|-------------------------|
| Number of Lens | 1 x 12 | 1 x 12 | 2 x 12 |
| Insertion Loss | ≤ 2.0dB (Typ. 1.2dB) *1 | ≤ 2.0dB (Typ. 1.5dB) *2 | ≤ 2.5dB (Typ. 1.5dB) *3 |
| Cross Talk | ≥ 50dB | ≥ 50dB | ≥ 50dB |
| Lens Position Tolerance | 0.005mm *4 | 0.005mm *4 | 0.005mm *4 |
| Dimensions | W2.5 x L6.4 x H0.55mm | W2.5 x L6.4 x H0.55mm | W2.6 x L6.4 x H2.6mm |

- *1 Light Source: 850nm (Steady State Mode by LED)/Air Gap: 1.5mm (Lens to Lens) Attached to the MT guide pin without any other alignment and matching glue
- *2 Light Source: 850nm_VCSEL(*12um, Divergence < 30°)/Air Gap: 0.3mm (VCSEL to Lens), 0.3mm (Lens to Fiber) active alignment for VCSEL side, non active alignment for fiber side without matching glue between fiber and lens
- *3 Light Source: 850nm (Steady State Mode by LED)/Air Gap: 0.4mm (Fibre to Lens) Attached to the MT guide pin without any other alignment and matching glue
- *4 Lens position tolerance is defined as an error to the true position referred to the center point of alignment holes

Applications

- Free-space Optical Connectivity
- Transceiver (For Parallel Optical Link)
- Optical Interconnection
- Board-to-board
- Chip-to-chip Interconnection

Dimensions (mm)



Structures

