



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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P1L

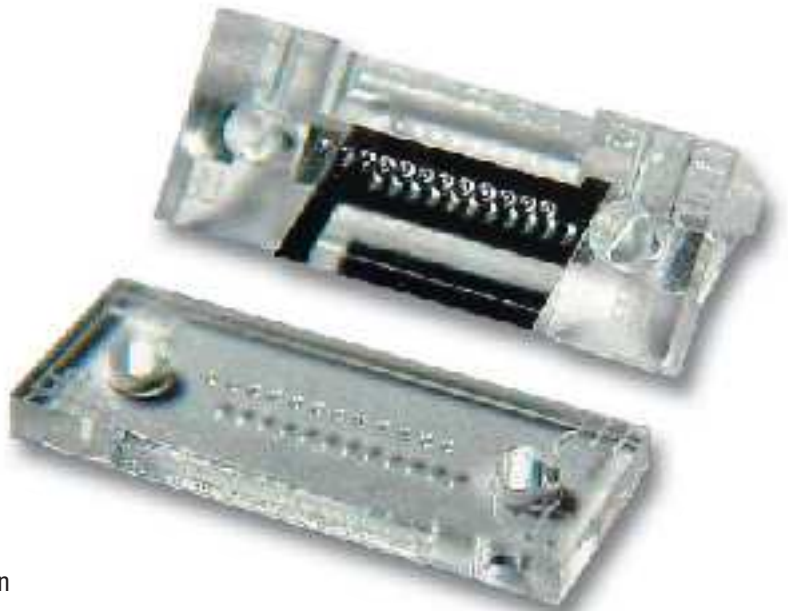
12ch Flat/P1L12A

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

Type	Flat (Collimator Type)	Flat (Focuser Type)	Right Angle
Number of Lens	1 x 12	1 x 12	2 x 12
Insertion Loss	$\leq 2.0\text{dB}$ (Typ. 1.2dB) *1	$\leq 2.0\text{dB}$ (Typ. 1.5dB) *2	$\leq 2.5\text{dB}$ (Typ. 1.5dB) *3
Cross Talk	$\geq 50\text{dB}$	$\geq 50\text{dB}$	$\geq 50\text{dB}$
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

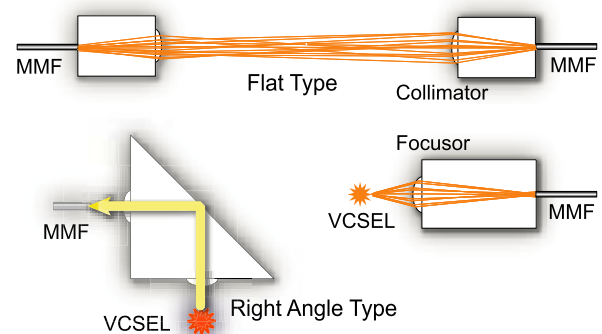
*3 Light Source: 850nm (Steady State Mode by LED)/Air Gap: 0.4mm (Fibre to Lens)
Attached to the MT guide pin without any other alignment and matching glue

*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

Structures



Dimensions (mm)

