Chipsmall

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!
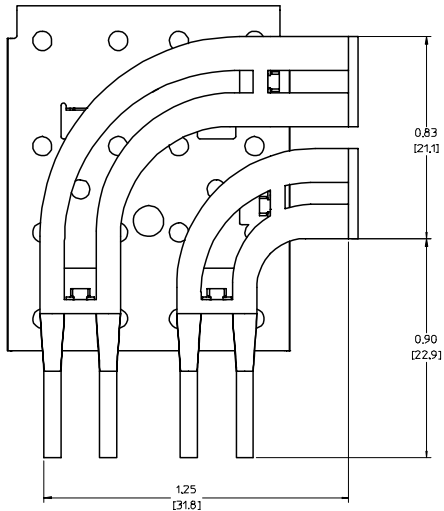
Contact us

0,83 [21,1]

0,90 [22,9]

1.25 [31,8]
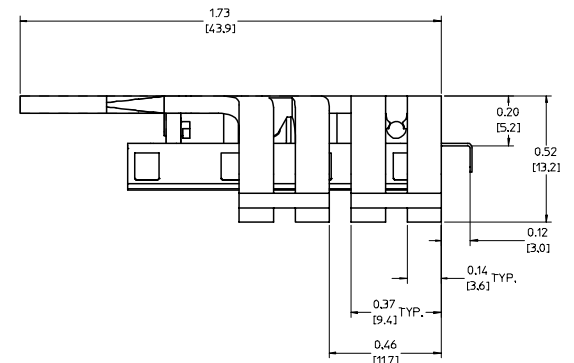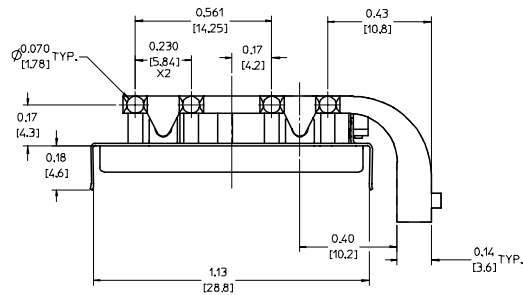
LIGHT PIPES SECURED TO
METAL COVER
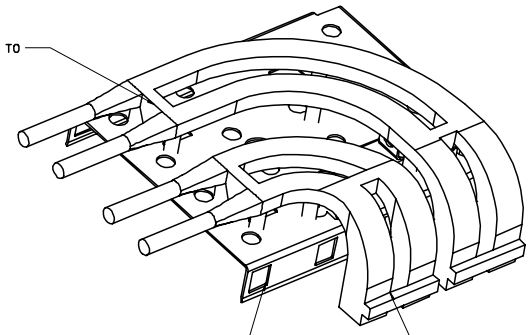
COVER DESIGNED TO SNAP ON
THE GANGED CAGE ASSEMBLY

LIGHT PIPES MOLDED
WITH VO RATED MATERIAL

0.561 [14,25]   0.43 [10,8]

Ø0.070 [1,78] TYP.

0.230 [5,84] X2   0.17 [4,2]

0.17 [4,3]

0.18 [4,6]

0.40 [10,2]

1.13 [28,8]

0.14 [3,6] TYP.

1.73 [43,9]

0.20 [5,2]

0.52 [13,2]

0.12 [3,0]

0.14 [3,6] TYP.

0.37 [9,4] TYP.

0.46 [11,7]

NOTES:

1. THIS LIGHT PIPE ASSEMBLY TO BE USED WITH THE FOLLOWING
   1X2 GANGED CAGE ASSEMBLIES:

   747220001 - 1X2 GANGED CAGE ASSEMBLY W/ PRESS FIT LEGS
   (REFER TO DOCUMENT SD-74722-001 FOR CAGE DETAILS)

2. IT IS RECOMMENDED THAT THE CAGE ASSEMBLY BE PRESSED INTO
   THE PCB PRIOR TO ASSEMBLING THE LIGHT PIPE ASSEMBLY.

3. LED'S TO HAVE A MAXIMUM HEIGHT OF 1.4mm AND A MINIMUM HEIGHT OF 0.7mm.

4. RECOMMENDED LED'S INCLUDE THE FOLLOWING MANUFACTURES:

   DIALIGHT: 597-77x1-5xx SERIES

   CHICAGO MINIATURE: 7016 SERIES

   KINGBRIGHT: APBL3025 SERIES (BICOLOR)
                APL3015 SERIES (SINGLE COLOR)

5. THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN
   ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) DIRECTIVE (2002/95/EC).

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PCB LAYOUT
FOR BELLY TO BELLY MOUNTING

CROSS-HATCHED AREA DENOTES
COMPONENT AND TRACE KEEP-OUT
(EXCEPT CHASSIS GROUND)

HOST CONNECTOR DETAIL

0.561 [14.25]
0.000 [0.00]

0.436 [11.08] 0.281 [7.13] 0.125 [3.17]
0.335 [8.50]
B

TOP LEFT HOLE OF
ADJACENT CAGE

1.312 [33.33]   1.122 [28.50]
0.469 [11.93] 0.337 [8.57] 0.224 [5.68] 0.092 [2.33] 0.039 [1.00]

SEE NOTE 3

A

0.000 [0.00]

Ø0.041 [1.05] X30
⊕ .004 A B

0.177 [4.50]

RECOMMENDED CENTRIX
OF LED

0.198 [5.03]

0.374 [9.50]

0.571 [14.50]

0.765 [19.43]

0.768 [19.50]

0.908 [23.06]

0.995 [25.28]

0.965 [24.50]

1.075 [27.30]

1.161 [29.50]

1.225 [31.12]

1.260 [32.00]

0.571 [14.50] TYP.

1.394 [35.40]

1.455 [36.96]

1.457 [37.00]

1.555 [39.50]

0.256 [6.50] TYP.

1.638 [41.60]

Ø0.037 [0.95] X12
⊕ .004 A B

1.665 [42.30]

THIS ARE DENOTES
KEEP-OUT FOR LED'S

0.039 [1.00] TYP.

0.079 [2.00] TYP.

0.113 [2.86] TYP.

SMALLER HOLE ON
THESE FOUR ROWS ONLY

SEE Detail1

THIS AREA DENOTES
COMPONENT KEEP-OUT
(TRACES ALLOWED)

Ø0.061 [1.55] X4
⊕ .004 A B

HOST CONNECTOR DETAIL

0.430 [10.93]

10   1

0.161 [4.10]

0.323 [8.20]

11   20

0.031 [0.80] X 18
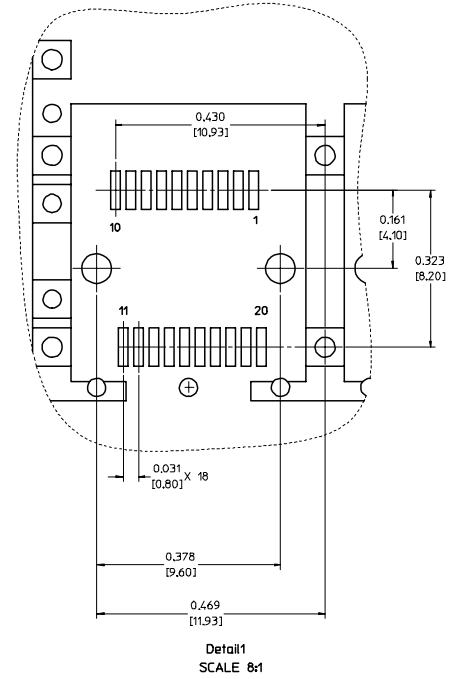
0.378 [9.60]

0.469 [11.93]

Detail1
SCALE 8:1

NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND.
2. CAGE MOUNTING THRU HOLES (34 PLACES) TO BE PLATED.
3. HOLE PATTERN REPEATS FOR EACH PORT,
   SPACING BETWEEN PORTS IS .561 [14.25].

PCB LAYOUT
FOR SINGLE SIDE MOUNTING
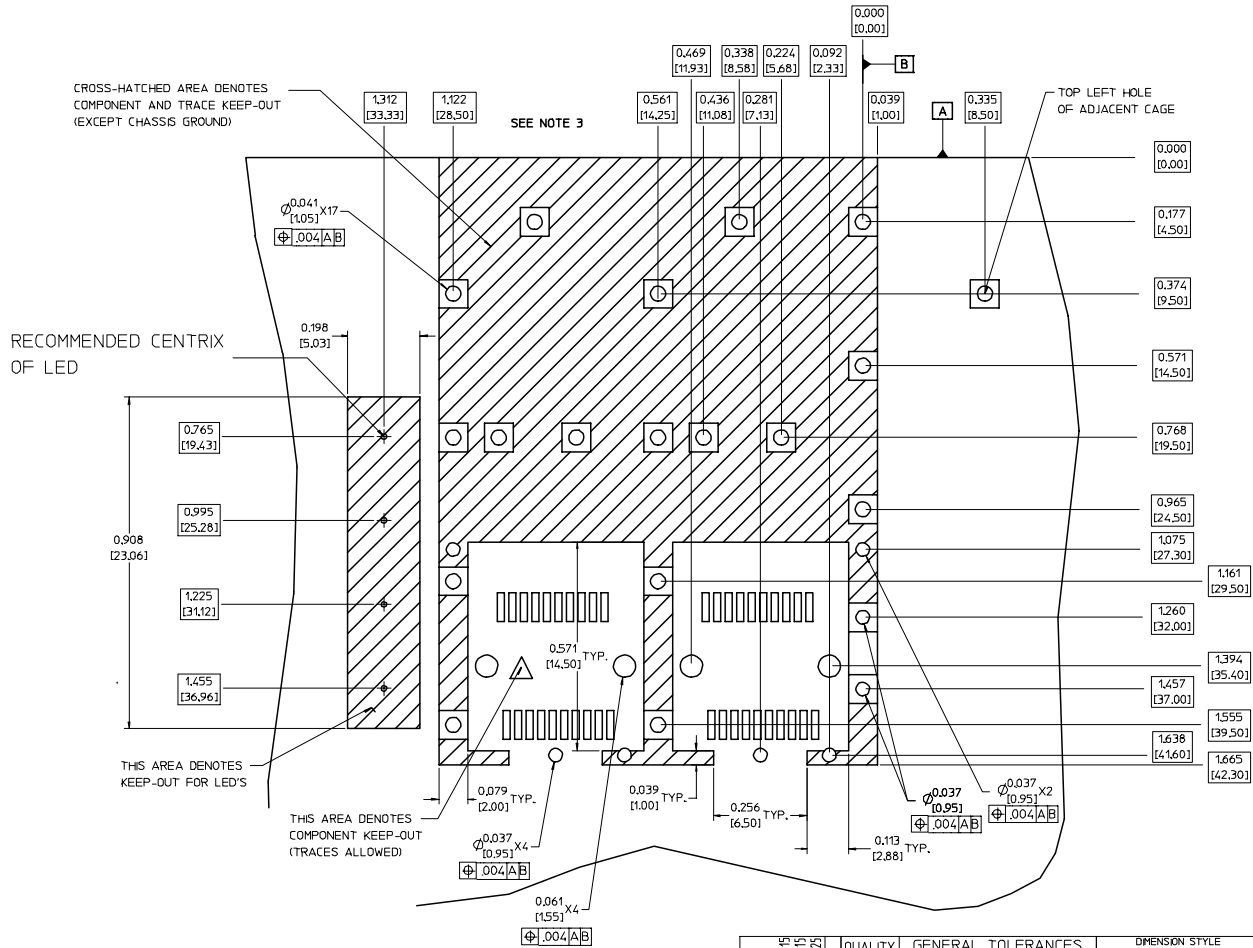
CROSS-HATCHED AREA DENOTES
COMPONENT AND TRACE KEEP-OUT
(EXCEPT CHASSIS GROUND)

SEE NOTE 3

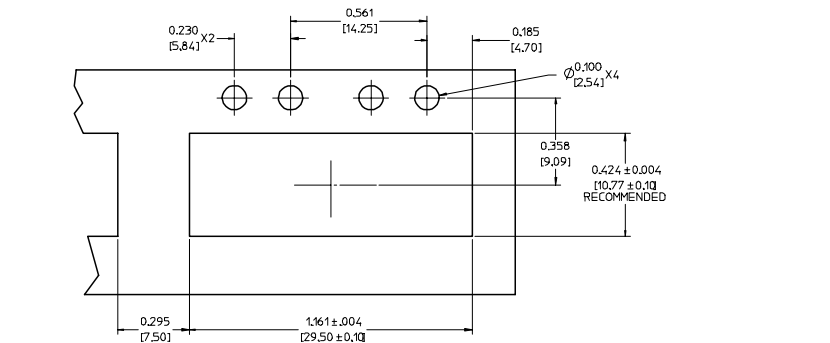TOP LEFT HOLE
OF ADJACENT CAGE

RECOMMENDED CENTRIX
OF LED

$\phi^{0.041}_{[1.05]}$ X17
$\oplus$ .004 A B

THIS AREA DENOTES
KEEP-OUT FOR LED'S

THIS AREA DENOTES
COMPONENT KEEP-OUT
(TRACES ALLOWED)

| 1.312 [33.33] | 1.122 [28.50] | | 0.469 [11.93] | 0.338 [8.58] | 0.224 [5.68] | 0.092 [2.33] | 0.000 [0.00] |
| 0.561 [14.25] | 0.436 [11.08] | 0.281 [7.13] | 0.039 [1.00] | 0.335 [8.50] |

0.000 [0.00]
0.177 [4.50]
0.374 [9.50]
0.571 [14.50]
0.768 [19.50]
0.965 [24.50]
1.075 [27.30]
1.161 [29.50]
1.260 [32.00]
1.394 [35.40]
1.457 [37.00]
1.555 [39.50]
1.638 [41.60]
1.665 [42.30]

0.198 [5.03]

0.765 [19.43]
0.995 [25.28]
1.225 [31.12]
1.455 [36.96]

0.908 [23.06]

0.571 [14.50] TYP.

0.079 [2.00] TYP.
0.039 [1.00] TYP.
0.256 [6.50] TYP.
0.113 [2.88] TYP.

$\phi^{0.037}_{[0.95]}$ X4
$\oplus$ .004 A B

$\phi^{0.037}_{[0.95]}$
$\oplus$ .004 A B

$\phi^{0.037}_{[0.95]}$ X2
$\oplus$ .004 A B

0.061 [1.55] X4
$\oplus$ .004 A B

NOTES:
1. PADS AND VIAS GO TO CHASSIS GROUND.
2. CAGE MOUNTING THRU HOLES (19 PLACES) TO BE PLATED.
3. HOLE PATTERN REPEATS FOR EACH PORT,
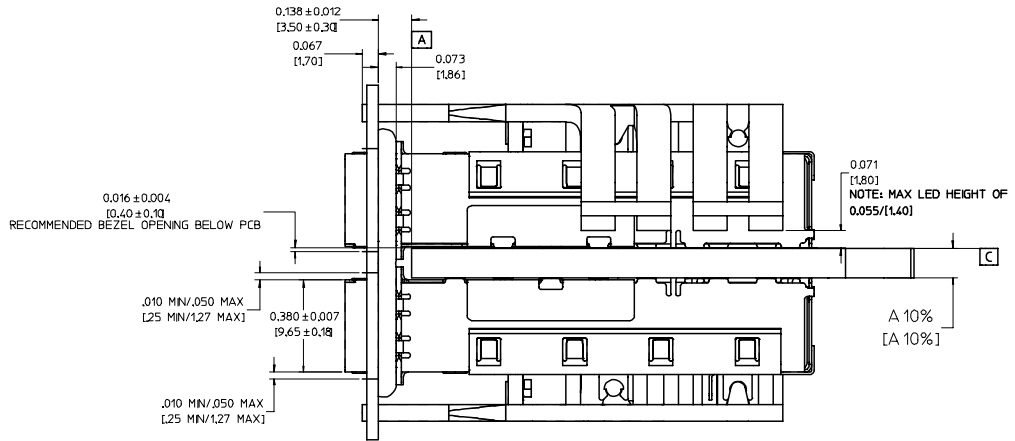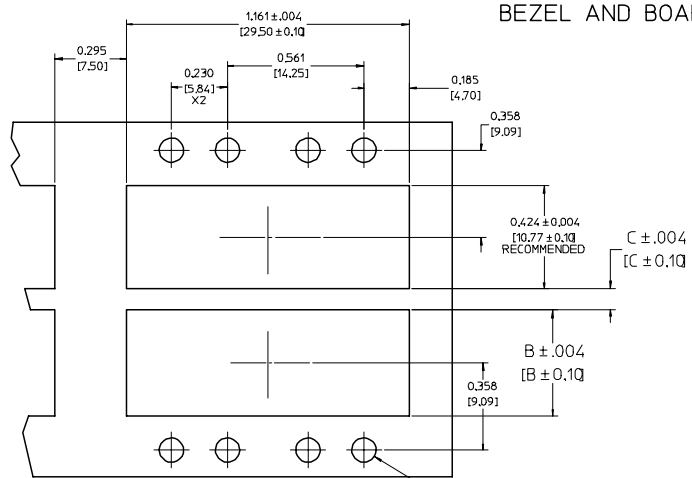   SPACING BETWEEN PORTS IS .561 [14.25].

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BEZEL AND BOARD POSITION DIMENSIONS FOR SINGLE SIDE MOUNTING

0.230 [5,84] X2
0.561 [14.25]
0.185 [4,70]
⌀ 0.100 [2,54] X4

0.358 [9.09]
0.424 ±0.004 [10.77 ±0.10] RECOMMENDED

0.295 [7.50]
1.161 ±.004 [29.50 ±0.10]

1.85 [46,9]
0.067 [1,70]
.010 MIN/.050 MAX [.25 MIN/1.27 MAX]
0.20 [5,2]
0.59 [15,0]

14.10 [0.555]
0.380 ±0.007 [9.65 ±0.18]
0.006 +0.007 −0.000 [0.15 +0.18 0]

.010 MIN/.050 MAX [.25 MIN/1.27 MAX]
0.016 ±0.004 [0.40 ±0.10]
RECOMMENDED BEZEL OPENING BELOW PCB

A
0.77 [19,4]
1.00 [25,3]
1.23 [31,1]
1.46 [37,0]

0.071 [1,80]
NOTE: MAX LED HEIGHT OF 0.055/[1.40]

C

0.073 [1,86]
0.138 ±0.012 [3,50 ±0.30]
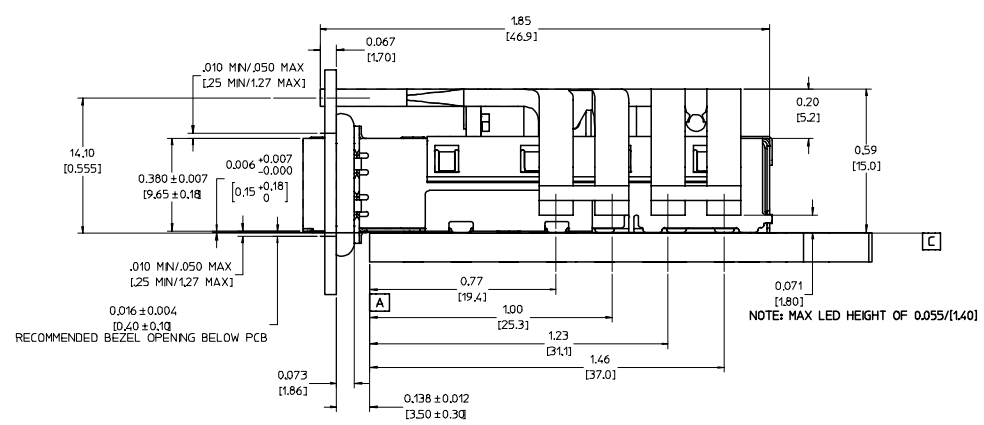
BEZEL AND BOARD POSITION DIMENSIONS FOR BELLY TO BELLY MOUNTING

1.161 ±.004 [29.50 ±0.10]
0.295 [7.50]
0.230 [5,84] X2
0.561 [14.25]
0.185 [4,70]
0.358 [9.09]

0.424 ±0.004 [10.77 ±0.10] RECOMMENDED
C ±.004 [C ±0.10]

B ±.004 [B ±0.10]
0.358 [9.09]

⌀ 0.100 [2,54] TYP.

0.138 ±0.012 [3,50 ±0.30]
0.067 [1,70]
A
0.073 [1,86]

0.016 ±0.004 [0.40 ±0.10]
RECOMMENDED BEZEL OPENING BELOW PCB

0.071 [1,80]
NOTE: MAX LED HEIGHT OF 0.055/[1.40]

.010 MIN/.050 MAX [.25 MIN/1.27 MAX]
0.380 ±0.007 [9.65 ±0.18]

C

A 10% [A 10%]

.010 MIN/.050 MAX [.25 MIN/1.27 MAX]

NOTE: FOR A GIVEN BOARD THICKNESS (A), DIMENSIONS (B) AND (C) ARE DIRECTLY AFFECTED.

USE RECOMMENDED DIMENSIONS AND TOLERANCES TO AID IN DEVELOPING BEZEL OPENING.

FOR EXAMPLE USING A BOARD THICKNESS OF .125" THE RECOMMENDED VALUES WOULD BE:

A= .125/3.18 ±10%
B= .434/11.03 ±.004
C= .088/2.23 ±.004

QUALITY SYMBOLS
▼ =0
▽ =0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	±.005
2 PLACES	± 0.13	±.01
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE IN/MM	SCALE 4:1	DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

DRAWN BY KS IMONSO	DATE 2004/07/08	TITLE
CHECKED BY BRUSSELL	DATE 2004/07/08	
APPROVED BY BRUSSELL	DATE 2004/07/08	

1X2 SFP LIGHT PIPE ASSEMBLY, SIDE-TOP

molex   MOLEX INCORPORATED

MATERIAL NO. 747270002	DOCUMENT NO. SD-74727-002	SHEET NO. 4 OF 5

SIZE D

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DATE	REV	CHANGES	COMMENTS
2003/11/04	1	PRELIMINARY DOCUMENT	N/A
2004/07/08	A	INITIAL RELEASE	N/A
2005/06/03	B	CORRECTED P/N FOR DIALIGHT LED	DOCUMENT CHANGE ONLY
2005/06/10	C	UPDATED VIEWS TO SHOW CLEARANCE HOLES ADDED TO THE COVER.	N/A