

## NOTES:

## 1) MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER, UL94 V-0, NATURAL  
CHICKLET - LIQUID CRYSTAL POLYMER, UL94 V-0, BLACK  
CONTACT - TIN BRASS

## 2) CONTACT PLATING FINISH:

0.76 MICRON MIN. SELECT GOLD AND  
3.81 MICRON MIN. SELECT PURE TIN OVER  
1.27 MICRON MIN. NICKEL OVERALL

## 3) HOUSING PLATING FINISH:

0.10 MICRON MAX IMMERSION GOLD OVER  
3.81 MICRON MIN. NICKEL OVER  
3.81 MICRON MIN. COPPER

## 4) 4.5mm 12 PAIR ASSEMBLY SHOWN.

## 5) PART CONFORMS TO MOLEX COSMETIC SPECIFICATION PS-75005-002.

## 6) PART PERFORMS TO MOLEX PRODUCT SPECIFICATION PS-75005-001.

## 7) PACKAGING (SEE TABLE):

TAPE AND REEL: PER PK-75005-001.

TUBES: PER PK-75005-002.

8) FOR AUTO-PLACEMENT APPLICATIONS: PCB ORIENTATION HOLE TO BE  $\varnothing 1.65 \pm 0.05$ 9) FOR HAND PLACEMENT APPLICATIONS: PCB ORIENTATION HOLE TO BE  $\varnothing 1.45 \pm 0.05$ 

## 10) THIS DIMENSION CONTROLS THE STACK HEIGHT OF THE MATED CONNECTORS.

## 11) PLEASE REFER TO MOLEX APPLICATION SPECIFICATION AS-75005-001 FOR SUITABLE PROCESSING TEMPERATURES, PERMISSABLE OFFSETS, AND MATING SEQUENCES.

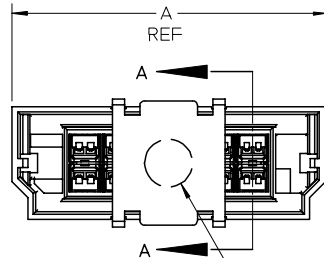
## 12) THESE PLATED THRU HOLES SHOULD BE CONNECTED TO SIGNAL GROUND.

## 13) THIS PART MATES WITH THE 75003 PLUG.

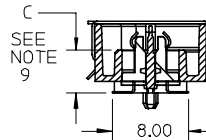
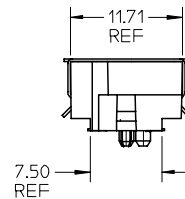
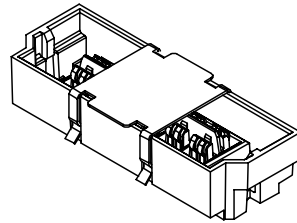
## 14) THIS PART IS RECOMMENDED TO BE PLACED ON THE PLANAR OR HOST PCB.

## 15) HOUSING IS CONDUCTIVE, UNINSULATED TRACES MUST BE KEPT OUT OF KEEP-OUT ZONE.

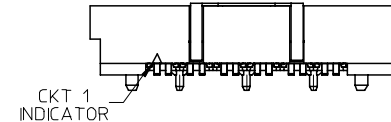
## 16) EACH SIDE IS MEASURED TO A COMMON DATUM WITHIN A COPLANARITY OF 0.102mm FOR 6 AND 12 PAIR, 0.114mm FOR 24 PAIR AND 0.127mm FOR 36 PAIR, THE SIDES MAY VARY TO EACH OTHER BY 0.05mm MAX.



$\varnothing 5.00$  MAX PICK AND PLACE AREA

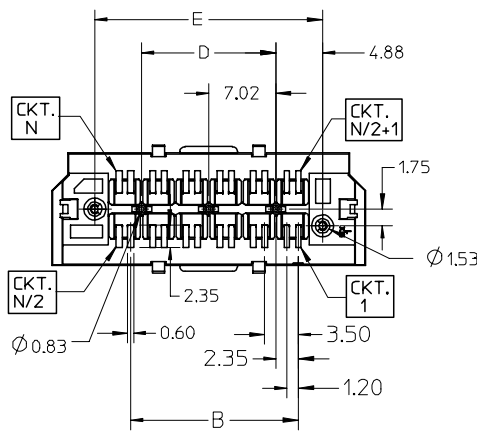


SECTION A-A



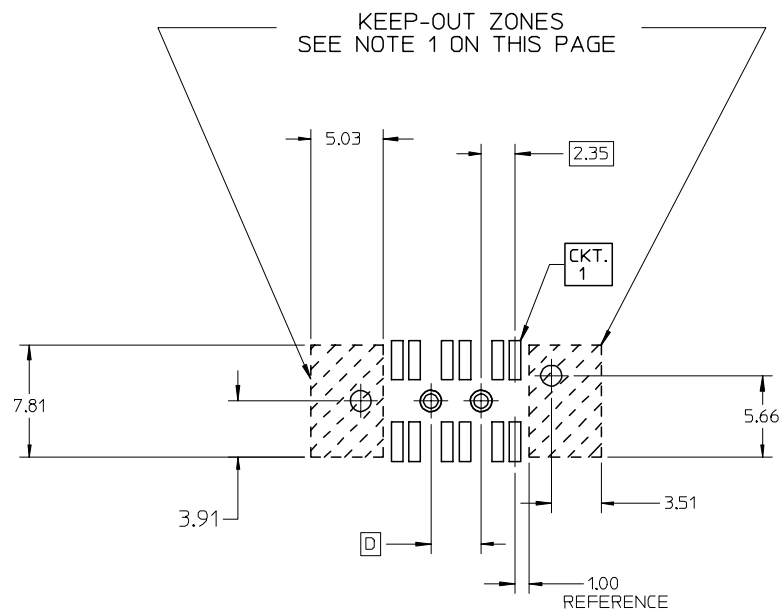
CKT 1 INDICATOR

FOR 6 AND 12 PAIR  $\varnothing 0.102$   
FOR 24 PAIR  $\varnothing 0.114$   
FOR 36 PAIR  $\varnothing 0.127$   
N SURFACES  
N = # OF CIRCUITS  
(SEE NOTE 15)



|                                                                                                                                |                                   |                                       |  |                                                                                                                               |                     |                        |                           |                  |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|---------------------------|------------------|
| ADD KEEP-OUT ZONES<br>EC NO: UCP2007-0343<br>DRWN: MSIBARRA 2006/10/25<br>CHKD: BBARKER 2006/10/27<br>APPR: SWILLER 2006/10/30 | QUALITY SYMBOLS<br>▽ = 0<br>▽ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | SCALE 2:1                                                                                                                     | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY        |                  |
|                                                                                                                                |                                   |                                       |  |                                                                                                                               |                     |                        |                           |                  |
|                                                                                                                                |                                   |                                       |  |                                                                                                                               |                     |                        |                           |                  |
|                                                                                                                                |                                   |                                       |  |                                                                                                                               |                     |                        |                           |                  |
| H<br>REV                                                                                                                       | DESCRIPTION                       | DRAFT WHERE APPLICABLE                |  | APPROVED BY MBANAKIS                                                                                                          | DATE 2001/12/13     | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-75005-001 | SHEET NO. 1 OF 3 |
|                                                                                                                                |                                   | MUST REMAIN WITHIN DIMENSIONS         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |                        |                           |                  |
|                                                                                                                                |                                   |                                       |  |                                                                                                                               |                     |                        |                           |                  |
|                                                                                                                                |                                   |                                       |  |                                                                                                                               |                     |                        |                           |                  |

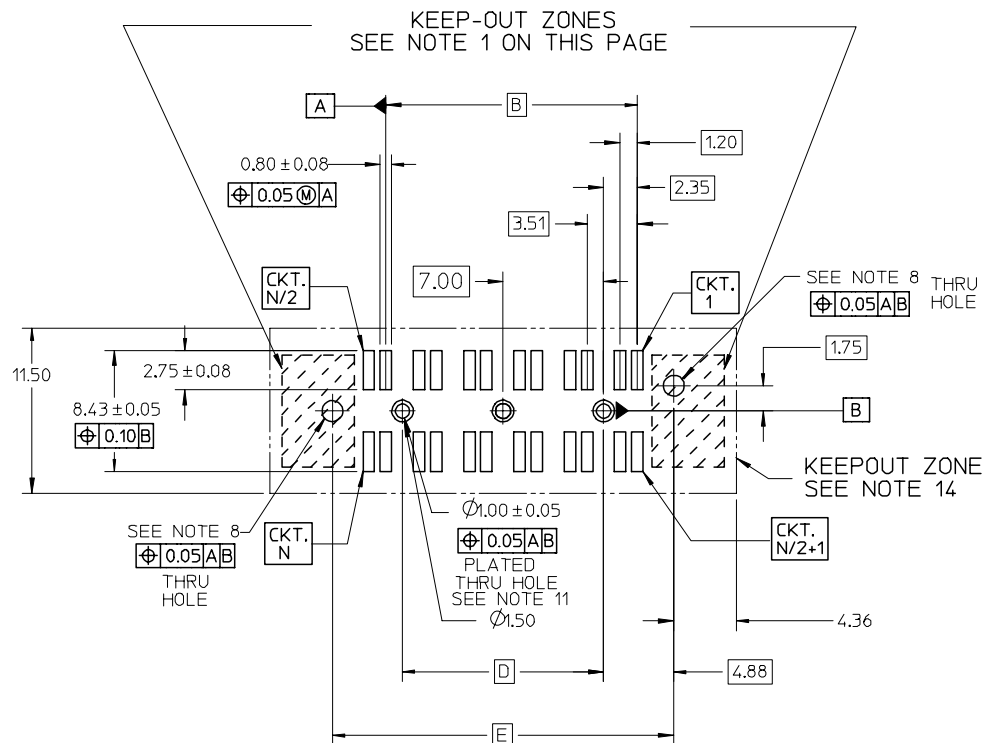
10 9 8 7 6 5 4 3 2 75005



COMPONENT SIDE SHOWN  
RECOMMENDED PCB THICKNESS: 1.57mm

FOR 12 CIRCUIT OPTION

FOR DIMENSIONS NOT SHOWN REFER TO  
THE 24-72 CIRCUIT PCB LAYOUT.



COMPONENT SIDE SHOWN  
RECOMMENDED PCB THICKNESS: 1.57mm  
FOR CIRCUIT SIZES FROM 24-72 CIRCUITS.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE COMMON TO BOTH VIEWS

# NOTE:

1. NO FEATURES (INCLUDING SOLDER PASTE) WHICH RISE ABOVE THE PCB SURFACE ALLOWED IN THIS AREA.

|                                                                                                                             |             |                                           |                                                             |  |                                                                                                                               |                        |                                                                  |  |                    |  |           |  |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|-------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------|--|--------------------|--|-----------|--|
| ADD KEEP-OUT ZONES<br>EC NO: UCP2007-0343<br>DRWN:MSIBARRA 2006/10/25<br>CHKD:BBARKER 2006/10/27<br>APPR:SWILLER 2006/10/30 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽ = 0<br><br>▽ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                       |  | SCALE<br>3:1                                                                                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION                                           |  | REVISE ON CAD ONLY |  |           |  |
|                                                                                                                             |             |                                           |                                                             |  | DIMENSION STYLE<br>MM ONLY                                                                                                    |                        | TITLE<br>SALES DRAWING FOR<br>HIGH SPEED MEZZANINE<br>RECEPTACLE |  |                    |  |           |  |
|                                                                                                                             |             |                                           |                                                             |  | DRAWN BY<br>DATE                                                                                                              |                        |                                                                  |  |                    |  |           |  |
|                                                                                                                             |             |                                           | 4 PLACES ± --- ± ---                                        |  | KSTILES 10/24/2001                                                                                                            |                        | MOLEX MOLEX INCORPORATED                                         |  |                    |  |           |  |
|                                                                                                                             |             |                                           | 3 PLACES ± --- ± ---                                        |  | CHECKED BY<br>DATE                                                                                                            |                        |                                                                  |  |                    |  |           |  |
| 2 PLACES ± 0.13 ± ---                                                                                                       |             | KREGNIER 10/25/2001                       |                                                             |  |                                                                                                                               |                        |                                                                  |  |                    |  |           |  |
| REV                                                                                                                         |             |                                           | 1 PLACE ± 0.25 ± ---                                        |  | APPROVED BY<br>DATE                                                                                                           |                        | MATERIAL NO.                                                     |  | DOCUMENT NO.       |  | SHEET NO. |  |
|                                                                                                                             |             |                                           | ANGULAR ±1/2°                                               |  | MBANAKIS 2001/12/13                                                                                                           |                        | SEE CHART                                                        |  | SD-75005-001       |  | 2 OF 3    |  |
|                                                                                                                             |             |                                           | DRAFT WHERE APPLICABLE<br><br>MUST REMAIN WITHIN DIMENSIONS |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                  |  |                    |  | B         |  |

| NUMBER OF<br>CIRCUITS | NUMBER OF<br>DIFFERENTIAL<br>PAIRS | MATERIAL<br>NUMBER | A     | B     | C     | D     | E     | F     | PACKAGING<br>SEE NOTE 7 |
|-----------------------|------------------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------------------------|
| 12                    | 6                                  | 750050304          | 22.23 | 7.02  | 4.50  | 3.52  | 13.27 | 7.25  | TAPE AND REEL           |
| 12                    | 6                                  | 750050306          | 22.30 | 7.02  | 6.50  | 3.52  | 13.27 | 9.25  | TAPE AND REEL           |
| 12                    | 6                                  | NOT TOOLED         | 22.51 | 7.02  | 12.50 | 3.52  | 13.27 | 15.25 | TAPE AND REEL           |
| 24                    | 12                                 | 750050004          | 32.76 | 17.55 | 4.50  | 14.05 | 23.80 | 7.25  | TAPE AND REEL           |
| 24                    | 12                                 | 750050006          | 32.83 | 17.55 | 6.50  | 14.05 | 23.80 | 9.25  | TAPE AND REEL           |
| 24                    | 12                                 | NOT TOOLED         | 33.04 | 17.55 | 12.50 | 14.05 | 23.80 | 15.25 | TAPE AND REEL           |
| 24                    | 12                                 | 75005-0014         | 33.04 | 17.55 | 14.50 | 14.04 | 23.80 | 17.25 | TUBES                   |
| 48                    | 24                                 | 750050104          | 53.82 | 38.61 | 4.50  | 35.11 | 44.86 | 7.25  | TAPE AND REEL           |
| 48                    | 24                                 | NOT TOOLED         | 54.10 | 38.61 | 12.50 | 35.11 | 44.86 | 15.25 | TAPE AND REEL           |
| 48                    | 24                                 | 75005-0114         | 54.10 | 38.61 | 14.50 | 35.11 | 44.86 | 17.25 | TUBES                   |
| 72                    | 36                                 | 750050204          | 74.88 | 59.67 | 4.50  | 56.17 | 65.92 | 7.25  | TAPE AND REEL           |
| 72                    | 36                                 | NOT TOOLED         | 75.16 | 59.67 | 12.50 | 56.17 | 65.92 | 15.25 | TAPE AND REEL           |
| 72                    | 36                                 | 750050214          | 75.16 | 59.67 | 14.50 | 56.17 | 65.92 | 17.25 | TAPE AND REEL           |

|                                                                                                                          |                         |                               |                                         |                                                                                                                               |                                                                                            |                        |                                                                  |                    |  |   |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------|--------------------|--|---|
| UPDATE REV LEVEL<br>EC NO: UCP2007-0343<br>DWN:MSBARRA 2006/10/25<br>CHKD:BBARKER 2006/10/27<br>APPR: SMILLER 2006/10/30 | DESCRIPTION<br>I<br>REV | QUALITY SYMBOLS               | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                                                                                                                               | SCALE<br>3:1                                                                               | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION                                           | REVISE ON CAD ONLY |  |   |
|                                                                                                                          |                         | 0.008<br>0.015                |                                         |                                                                                                                               | DIMENSION STYLE<br>MM ONLY                                                                 |                        | TITLE<br>SALES DRAWING FOR<br>HIGH SPEED MEZZANINE<br>RECEPTACLE |                    |  |   |
|                                                                                                                          |                         |                               | DRAWN BY DATE<br>KSTILES 10/24/2001     |                                                                                                                               |                                                                                            |                        |                                                                  |                    |  |   |
|                                                                                                                          |                         |                               | CHECKED BY DATE<br>KREGNIER 10/25/2001  |                                                                                                                               | MOLEX INCORPORATED<br>MATERIAL NO. DOCUMENT NO. SHEET NO.<br>SEE CHART SD-75005-001 3 OF 3 |                        |                                                                  |                    |  |   |
|                                                                                                                          |                         |                               | APPROVED BY DATE<br>MBANAKIS 2001/12/13 |                                                                                                                               |                                                                                            |                        |                                                                  |                    |  |   |
| DRAFT WHERE APPLICABLE                                                                                                   |                         | MUST REMAIN WITHIN DIMENSIONS |                                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                            |                        |                                                                  |                    |  | B |