

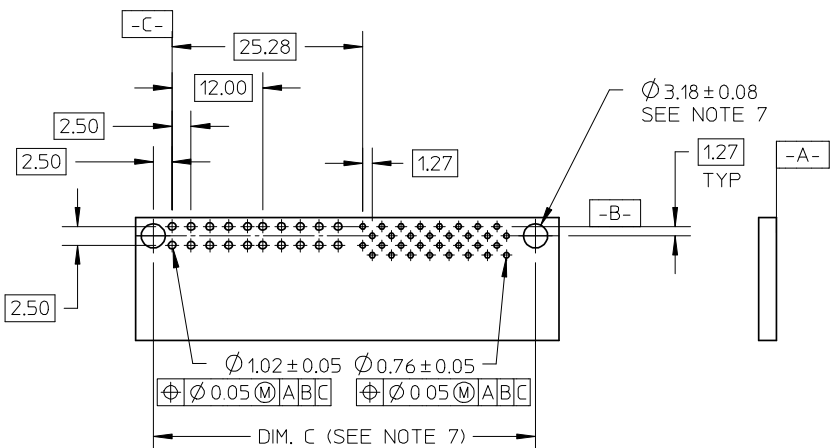
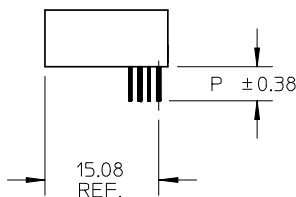
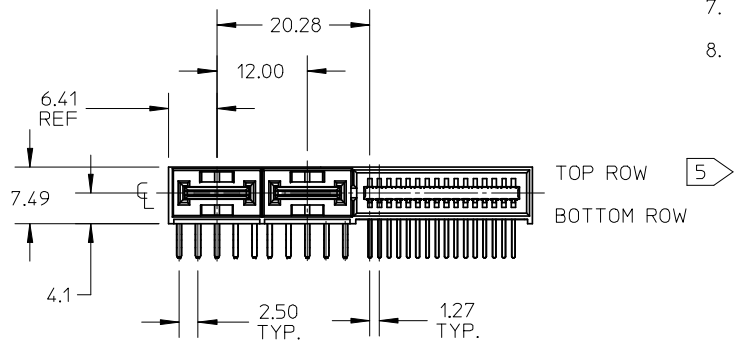
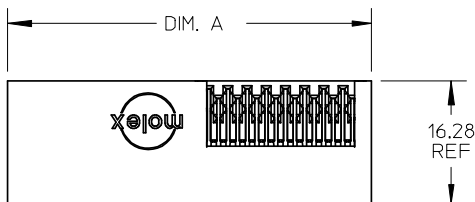
D

C

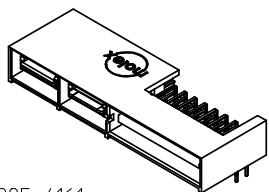
B

A

- NOTES:
1. MATERIAL: LCP, 94V-0, BLACK  
POWER CONTACT: COPPER ALLOY  
SIGNAL CONTACT: PHOSPHOR BRONZE
  2. FINISH: SELECT GOLD 0.76µM/30 MI MIN. IN CONTACT AREA  
SELECT TIN 3.81µM/150 MI MIN. IN PC TAIL AREA  
BOTH OVER NICKEL 1.27µM/50 MI MIN
  3. PRODUCT SPECIFICATION: PS-45984-001
  4. PACKAGING SPECIFICATION: TRAY PER PK-45984-001.
  5. SEE SHEET 5 FOR CIRCUIT IDENTIFICATION.
  6. PARTS ARE RoHS COMPLIANT.
  7. PEG HOLES ARE OPTIONAL PCB FEATURES AND ARE REQUIRED ONLY WITH THE PEGGED OPTIONS.
  8. MATES WITH MOLEX RECEPTACLE SERIES 45984-4\*\*\*.



PCB LAYOUT: COMPONENT SIDE  
THKNESS: SEE CHART



45985-4161  
(SHOWN FOR REFERENCE)  
SEE CHART

| NO OF SIGNAL | MATERIAL NUMBER | DIM A REF | DIM P | PCB THK |
|--------------|-----------------|-----------|-------|---------|
| 12           | 45985-4111      | 36.16     | 4.50  | 3.18    |
| 16           | 45985-4121      | 38.70     |       |         |
| 20           | 45985-4131      | 41.24     |       |         |
| 24           | 45985-4141      | 43.78     |       |         |
| 28           | 45985-4151      | 46.32     |       |         |
| 32           | 45985-4161      | 48.86     |       |         |
| 36           | 45985-4171      | 51.40     | 3.90  | 2.36    |
| 40           | 45985-4181      | 53.94     |       |         |
| 12           | 45985-4112      | 36.16     |       |         |
| 16           | 45985-4122      | 38.70     |       |         |
| 20           | 45985-4132      | 41.24     |       |         |
| 24           | 45985-4142      | 43.78     |       |         |
| 28           | 45985-4152      | 46.32     |       |         |
| 32           | 45985-4162      | 48.86     | 2.90  | 1.57    |
| 36           | 45985-4172      | 51.40     |       |         |
| 40           | 45985-4182      | 53.94     |       |         |
| 12           | 45985-4113      | 36.16     |       |         |
| 16           | 45985-4123      | 38.70     |       |         |
| 20           | 45985-4133      | 41.24     |       |         |
| 24           | 45985-4143      | 43.78     |       |         |
| 28           | 45985-4153      | 46.32     |       |         |
| 32           | 45985-4163      | 48.86     |       |         |
| 36           | 45985-4173      | 51.40     |       |         |
| 40           | 45985-4183      | 53.94     |       |         |

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|                                                                         |                                        |             |                                                            |        |       |                                                                                                          |                                                                                                                                  |                                                                     |                        |                                                                                                                 |  |
|-------------------------------------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------|--------|-------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| REVISED<br>EC NO: UCP2007-3140<br>DRWN:MBANDURA<br>CHKD:<br>APPR:APATEL | 2008/03/03<br>2008/03/04<br>2008/03/06 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |       | DIMENSION STYLE<br>MM ONLY                                                                               |                                                                                                                                  | SCALE<br>1:1                                                        | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |  |
|                                                                         |                                        |             |                                                            | mm     | INCH  | DRAWN BY<br>JSCHAFFER                                                                                    | DATE<br>6-10-05                                                                                                                  | TITLE<br>LPH PLUG ASSEMBLY<br>RT ANGLE 4 CIRCUIT<br>POWER CONNECTOR |                        |                                                                                                                 |  |
|                                                                         |                                        |             | 4 PLACES                                                   | ± ---  | ± --- | CHECKED BY<br>YMARGULIS                                                                                  | DATE<br>6-14-05                                                                                                                  |                                                                     |                        |                                                                                                                 |  |
|                                                                         |                                        |             | 3 PLACES                                                   | ± ---  | ± --- | APPROVED BY<br>YMARGULIS                                                                                 | DATE<br>6-15-05                                                                                                                  |                                                                     |                        |                                                                                                                 |  |
|                                                                         |                                        |             | 2 PLACES                                                   | ± 0.25 | ± --- |  MOLEX INCORPORATED |                                                                                                                                  |                                                                     |                        |                                                                                                                 |  |
|                                                                         |                                        |             | 1 PLACE                                                    | ± ---  | ± --- |                                                                                                          |                                                                                                                                  |                                                                     |                        |                                                                                                                 |  |
|                                                                         |                                        |             | ANGULAR ±1/2°                                              |        |       | MATERIAL NO.<br>SEE CHART                                                                                |                                                                                                                                  | DOCUMENT NO.<br>SD-45985-400                                        |                        | SHEET NO.<br>1 OF 5                                                                                             |  |
|                                                                         |                                        |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | SIZE<br>A                                                                                                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                     |                        |                                                                                                                 |  |

D

C

B

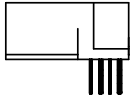
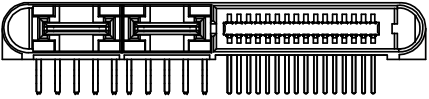
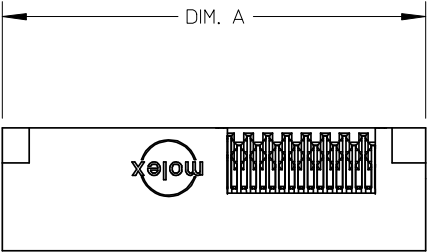
A

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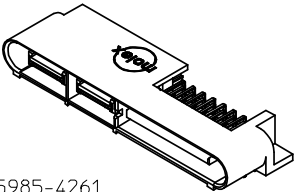
A



GUIDE OPTIONS

| NO OF SIGNAL | MATERIAL NUMBER | DIM A REF | DIM P | PCB THK |
|--------------|-----------------|-----------|-------|---------|
| 12           | 45985-4211      | 43.66     | 4.50  | 3.18    |
| 16           | 45985-4221      | 46.20     |       |         |
| 20           | 45985-4231      | 48.74     |       |         |
| 24           | 45985-4241      | 51.28     |       |         |
| 28           | 45985-4251      | 53.82     |       |         |
| 32           | 45985-4261      | 56.36     |       |         |
| 36           | 45985-4271      | 58.90     |       |         |
| 40           | 45985-4281      | 61.44     | 3.90  | 2.36    |
| 12           | 45985-4212      | 43.66     |       |         |
| 16           | 45985-4222      | 46.20     |       |         |
| 20           | 45985-4232      | 48.74     |       |         |
| 24           | 45985-4242      | 51.28     |       |         |
| 28           | 45985-4252      | 53.82     |       |         |
| 32           | 45985-4262      | 56.36     |       |         |
| 36           | 45985-4272      | 58.90     |       |         |
| 40           | 45985-4282      | 61.44     | 2.90  | 1.57    |
| 12           | 45985-4213      | 43.66     |       |         |
| 16           | 45985-4223      | 46.20     |       |         |
| 20           | 45985-4233      | 48.74     |       |         |
| 24           | 45985-4243      | 51.28     |       |         |
| 28           | 45985-4253      | 53.82     |       |         |
| 32           | 45985-4263      | 56.36     |       |         |
| 36           | 45985-4273      | 58.90     |       |         |
| 40           | 45985-4283      | 61.44     |       |         |

NOTE:  
1. SEE SHEET 1 FOR DIMENSIONS NOT SHOWN.



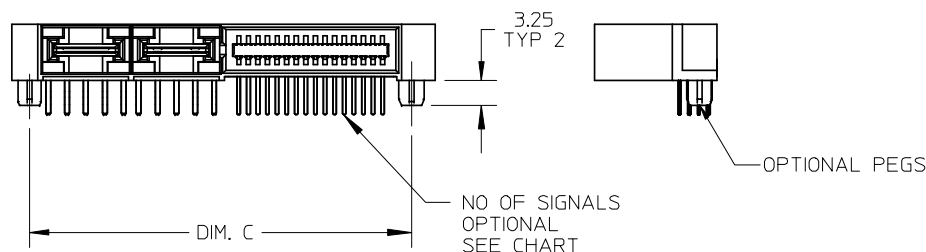
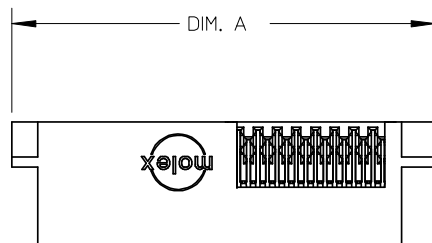
45985-4261  
(SHOWN FOR REFERENCE)  
SEE CHART

|         |                     |               |            |       |            |             |            |             |
|---------|---------------------|---------------|------------|-------|------------|-------------|------------|-------------|
| REVISED | EC NO: UCP2007-3140 | DRWN:MBANDURA | 2008/03/03 | CHKD: | 2008/03/04 | APPR:APATEL | 2008/03/06 | DESCRIPTION |
| C       |                     |               |            |       |            |             |            | REV         |

| GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |       |
|------------------------------------------------------------|--------|-------|
|                                                            | mm     | INCH  |
| 4 PLACES                                                   | ± ---  | ± --- |
| 3 PLACES                                                   | ± ---  | ± --- |
| 2 PLACES                                                   | ± 0.25 | ± --- |
| 1 PLACE                                                    | ± ---  | ± --- |
| ANGULAR ±1/2°                                              |        |       |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       |

| DIMENSION STYLE<br>MM ONLY |         |
|----------------------------|---------|
| DRAWN BY                   | DATE    |
| JSCHAFFER                  | 6-10-05 |
| CHECKED BY                 | DATE    |
| YMARGULIS                  | 6-14-05 |
| APPROVED BY                | DATE    |
| YMARGULIS                  | 6-15-05 |
| MATERIAL NO.               |         |
| SEE CHART                  |         |
| SIZE                       |         |
| A                          |         |

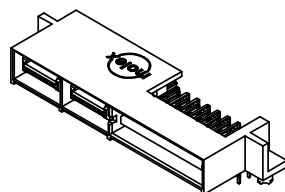
|                                                                                                                 |                        |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE<br>1:1                                                                                                    | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |
| TITLE<br>LPH PLUG ASSEMBLY<br>RT ANGLE 4 CIRCUIT<br>POWER CONNECTOR                                             |                        |                                                                                                                 |
|  MOLEX INCORPORATED        |                        |                                                                                                                 |
| DOCUMENT NO.<br>SD-45985-400                                                                                    |                        | SHEET NO.<br>2 OF 5                                                                                             |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                                 |



## MOUNTING PEG OPTIONS

NOTE:

1. SEE SHEET 1 FOR DIMENSIONS NOT SHOWN.



45985-4361  
(SHOWN FOR REFERENCE)  
SEE CHART

|         |                     |            |               |            |       |            |             |            |             |
|---------|---------------------|------------|---------------|------------|-------|------------|-------------|------------|-------------|
| REVISED | EC NO: UCP2007-3140 | 2008/03/03 | DRWN:MBANDURA | 2008/03/04 | CHKD: | 2008/03/06 | APPR:APATEL | 2008/03/06 | DESCRIPTION |
| C       |                     |            |               |            |       |            |             |            | REV         |

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|          | mm     | INCH  |
|----------|--------|-------|
| 4 PLACES | ± ---  | ± --- |
| 3 PLACES | ± ---  | ± --- |
| 2 PLACES | ± 0.25 | ± --- |
| 1 PLACE  | ± ---  | ± --- |

ANGULAR  $\pm 1/2^\circ$

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

|             |         |
|-------------|---------|
| DRAWN BY    | DATE    |
| JSCHAFFER   | 6-10-05 |
| CHECKED BY  | DATE    |
| YMARGULIS   | 6-14-05 |
| APPROVED BY | DATE    |
| YMARGULIS   | 6-15-05 |

MATERIAL NO.  
SEE CHART

SIZE  
A

SCALE  
1:1

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

TITLE  
LPH PLUG ASSEMBLY  
RT ANGLE 4 CIRCUIT  
POWER CONNECTOR  
MOLEX INCORPORATED

DOCUMENT NO.  
SD-45985-400

SHEET NO.  
3 OF 5

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

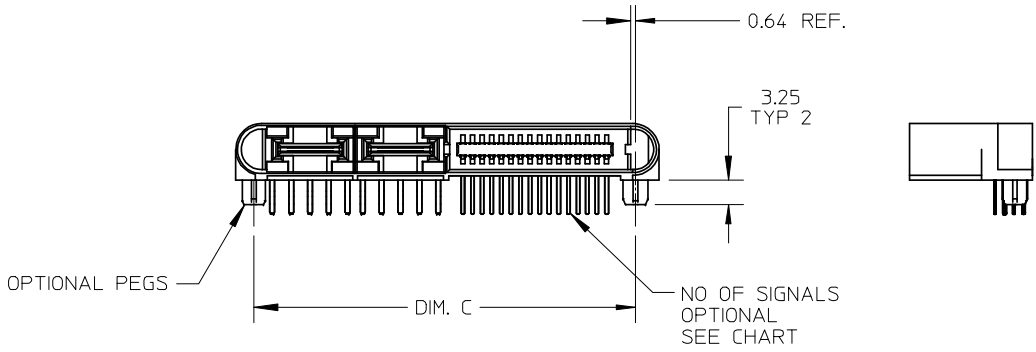
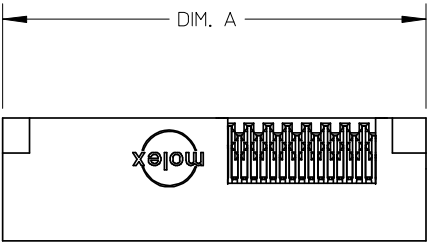
| NO OF<br>SIGNAL | MATERIAL<br>NUMBER | DIM A<br>REF | DIM C | DIM P | PCB<br>THK |
|-----------------|--------------------|--------------|-------|-------|------------|
| 12              | 45985-4311         | 43.66        | 37.98 | 4.50  | 3.18       |
| 16              | 45985-4321         | 46.20        | 40.52 |       |            |
| 20              | 45985-4331         | 48.74        | 43.06 |       |            |
| 24              | 45985-4341         | 51.28        | 45.60 |       |            |
| 28              | 45985-4351         | 53.82        | 48.14 |       |            |
| 32              | 45985-4361         | 56.36        | 50.68 |       |            |
| 36              | 45985-4371         | 58.90        | 53.22 | 3.90  | 2.36       |
| 40              | 45985-4381         | 61.44        | 55.76 |       |            |
| 12              | 45985-4312         | 43.66        | 37.98 |       |            |
| 16              | 45985-4322         | 46.20        | 40.52 |       |            |
| 20              | 45985-4332         | 48.74        | 43.06 |       |            |
| 24              | 45985-4342         | 51.28        | 45.60 |       |            |
| 28              | 45985-4352         | 53.82        | 48.14 |       |            |
| 32              | 45985-4362         | 56.36        | 50.68 | 2.90  | 1.57       |
| 36              | 45985-4372         | 58.90        | 53.22 |       |            |
| 40              | 45985-4382         | 61.44        | 55.76 |       |            |
| 12              | 45985-4313         | 43.66        | 37.98 |       |            |
| 16              | 45985-4323         | 46.20        | 40.52 |       |            |
| 20              | 45985-4333         | 48.74        | 43.06 |       |            |
| 24              | 45985-4343         | 51.28        | 45.60 |       |            |
| 28              | 45985-4353         | 53.82        | 48.14 |       |            |
| 32              | 45985-4363         | 56.36        | 50.68 |       |            |
| 36              | 45985-4373         | 58.90        | 53.22 |       |            |
| 40              | 45985-4383         | 61.44        | 55.76 |       |            |

D

C

B

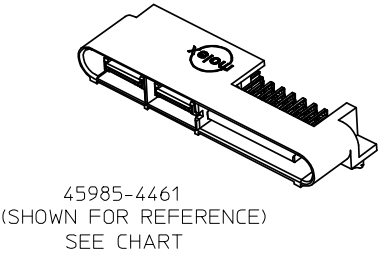
A



GUIDE & MOUNTING PEG OPTIONS

| NO OF SIGNAL | MATERIAL NUMBER | DIM A REF | DIM C | DIM P | PCB THK |
|--------------|-----------------|-----------|-------|-------|---------|
| 12           | 45985-4411      | 43.66     | 37.98 | 4.50  | 3.18    |
| 16           | 45985-4421      | 46.20     | 40.52 |       |         |
| 20           | 45985-4431      | 48.74     | 43.06 |       |         |
| 24           | 45985-4441      | 51.28     | 45.60 |       |         |
| 28           | 45985-4451      | 53.82     | 48.14 |       |         |
| 32           | 45985-4461      | 56.36     | 50.68 |       |         |
| 36           | 45985-4471      | 58.90     | 53.22 | 3.90  | 2.36    |
| 40           | 45985-4481      | 61.44     | 55.76 |       |         |
| 12           | 45985-4412      | 43.66     | 37.98 |       |         |
| 16           | 45985-4422      | 46.20     | 40.52 |       |         |
| 20           | 45985-4432      | 48.74     | 43.06 |       |         |
| 24           | 45985-4442      | 51.28     | 45.60 |       |         |
| 28           | 45985-4452      | 53.82     | 48.14 |       |         |
| 32           | 45985-4462      | 56.36     | 50.68 | 2.90  | 1.57    |
| 36           | 45985-4472      | 58.90     | 53.22 |       |         |
| 40           | 45985-4482      | 61.44     | 55.76 |       |         |
| 12           | 45985-4413      | 43.66     | 37.98 |       |         |
| 16           | 45985-4423      | 46.20     | 40.52 |       |         |
| 20           | 45985-4433      | 48.74     | 43.06 |       |         |
| 24           | 45985-4443      | 51.28     | 45.60 |       |         |
| 28           | 45985-4453      | 53.82     | 48.14 |       |         |
| 32           | 45985-4463      | 56.36     | 50.68 |       |         |
| 36           | 45985-4473      | 58.90     | 53.22 |       |         |
| 40           | 45985-4483      | 61.44     | 55.76 |       |         |

NOTE:  
1. SEE SHEET 1 FOR DIMENSIONS NOT SHOWN.



45985-4461  
(SHOWN FOR REFERENCE)  
SEE CHART

|                                                                         |                                        |             |                                                            |        |       |                                                                                                                                  |                 |                                                                     |                        |                           |  |                     |  |
|-------------------------------------------------------------------------|----------------------------------------|-------------|------------------------------------------------------------|--------|-------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|------------------------|---------------------------|--|---------------------|--|
| REVISED<br>EC NO: UCP2007-3140<br>DRWN:MBANDURA<br>CHKD:<br>APPR:APATEL | 2008/03/03<br>2008/03/04<br>2008/03/06 | DESCRIPTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |       | DIMENSION STYLE<br>MM ONLY                                                                                                       |                 | SCALE<br>1:1                                                        | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |                     |  |
|                                                                         |                                        |             |                                                            | mm     | INCH  | DRAWN BY<br>JSCHAFFER                                                                                                            | DATE<br>6-10-05 | TITLE<br>LPH PLUG ASSEMBLY<br>RT ANGLE 4 CIRCUIT<br>POWER CONNECTOR |                        |                           |  |                     |  |
|                                                                         |                                        |             | 4 PLACES                                                   | ± ---  | ± --- | CHECKED BY                                                                                                                       | DATE            |                                                                     |                        |                           |  |                     |  |
|                                                                         |                                        |             | 3 PLACES                                                   | ± ---  | ± --- | YMARGULIS                                                                                                                        | 6-14-05         |                                                                     |                        |                           |  |                     |  |
|                                                                         |                                        |             | 2 PLACES                                                   | ± 0.25 | ± --- | APPROVED BY                                                                                                                      | DATE            | molex MOLEX INCORPORATED                                            |                        |                           |  |                     |  |
|                                                                         |                                        |             | 1 PLACE                                                    | ± ---  | ± --- | YMARGULIS                                                                                                                        | 6-15-05         |                                                                     |                        |                           |  |                     |  |
|                                                                         |                                        |             | ANGULAR ±1/2°                                              |        |       | MATERIAL NO.<br>SEE CHART                                                                                                        |                 | DOCUMENT NO.<br>SD-45985-400                                        |                        |                           |  | SHEET NO.<br>4 OF 5 |  |
|                                                                         |                                        |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |                                                                     |                        |                           |  |                     |  |
|                                                                         |                                        |             |                                                            |        |       | SIZE<br>A                                                                                                                        |                 |                                                                     |                        |                           |  |                     |  |
|                                                                         |                                        |             | REV                                                        |        |       |                                                                                                                                  |                 |                                                                     |                        |                           |  |                     |  |

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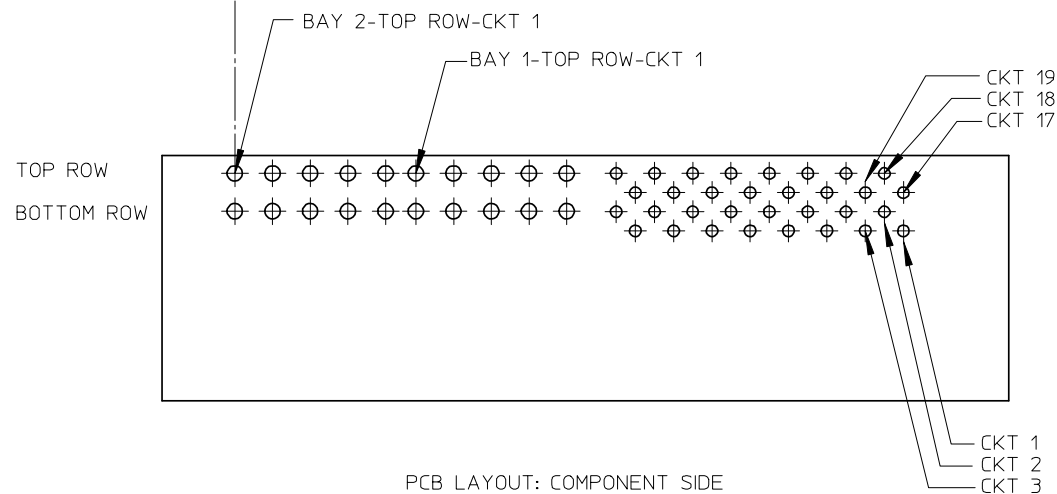
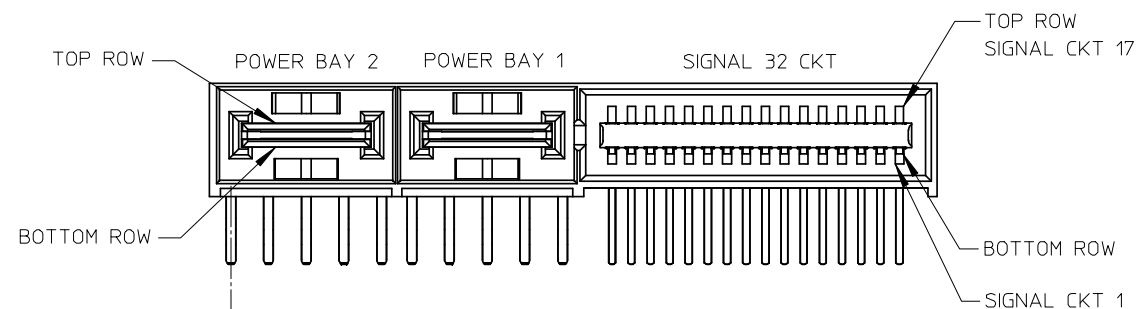
4

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1

## CIRCUIT NUMBERING SYSTEM



|                                                                         |                                        |                    |                                                            |        |       |                            |                 |                                                                                               |                        |                                                                                                                 |                              |  |
|-------------------------------------------------------------------------|----------------------------------------|--------------------|------------------------------------------------------------|--------|-------|----------------------------|-----------------|-----------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------|--|
| REVISED<br>EC NO: UCP2007-3140<br>DRWN:MBANDURA<br>CHKD:<br>APPR:APATEL | 2008/03/03<br>2008/03/04<br>2008/03/06 | DESCRIPTION<br>REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |        |       | DIMENSION STYLE<br>MM ONLY |                 | SCALE<br>2:1                                                                                  | DESIGN UNITS<br>METRIC |  THIRD ANGLE<br>PROJECTION |                              |  |
|                                                                         |                                        |                    |                                                            | mm     | INCH  | DRAWN BY<br>JSCHAFFER      | DATE<br>6-10-05 | TITLE<br>LPH PLUG ASSEMBLY<br>RT ANGLE 4 CIRCUIT<br>POWER CONNECTOR<br><br>MOLEX INCORPORATED |                        |                                                                                                                 |                              |  |
|                                                                         |                                        |                    | 4 PLACES                                                   | ± ---  | ± --- | CHECKED BY<br>YMARGULIS    | DATE<br>6-14-05 |                                                                                               |                        |                                                                                                                 |                              |  |
|                                                                         |                                        |                    | 3 PLACES                                                   | ± ---  | ± --- | APPROVED BY<br>YMARGULIS   | DATE<br>6-15-05 |                                                                                               |                        |                                                                                                                 |                              |  |
|                                                                         |                                        |                    | 2 PLACES                                                   | ± 0.25 | ± --- | MATERIAL NO.<br>SEE CHART  |                 |                                                                                               |                        |                                                                                                                 | DOCUMENT NO.<br>SD-45985-400 |  |
|                                                                         |                                        |                    | 1 PLACE                                                    | ± ---  | ± --- |                            |                 |                                                                                               |                        |                                                                                                                 |                              |  |
|                                                                         |                                        |                    | ANGULAR ±1/2°                                              |        |       |                            |                 |                                                                                               |                        |                                                                                                                 |                              |  |
|                                                                         |                                        |                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |       |                            |                 |                                                                                               |                        |                                                                                                                 |                              |  |

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