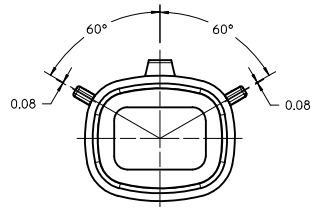


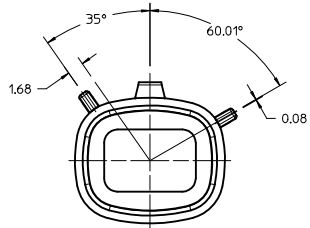
# CUSTOMER SHROUD DESIGN DETAILS

## NOTES:

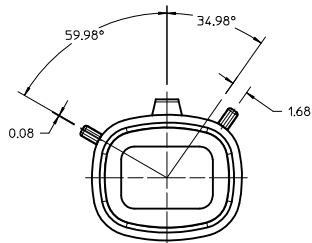
1. REFER TO MOLEX SALES DRAWING SD-75757-002 FOR THE HEADER ASSEMBLY PRODUCT DETAILS AND RECOMMENDED PCB LAYOUT.
2. KEYING OPTIONS A-D AND SUGGESTED COLORS COMPLY TO THE POLARIZATION STANDARDS ESTABLISHED FOR MATING WITH A MX150 FEMALE CONNECTOR.
3. INTERIOR SHROUD SURFACE MUST BE FREE OF DEFECTS AND PARTING LINES ALL AROUND TO ENSURE PROPER SEALING OF THE MATING MX150 FEMALE CONNECTOR.
4. A FULL SHROUD ON THE MATING CONNECTOR IS REQUIRED TO INSURE THE HEADER SHROUD POLARIZATION FEATURES (OPTIONS A-D) WILL FUNCTION PROPERLY. THE FULL SHROUD ALSO PREVENTS SCOOP DAMAGE TO THE HEADER CONTACTS.
5. PERMISSIBLE DRAFT ANGLE 0.25° MAXIMUM.
6. RADII ON ALL CORNERS SHOWN SHARP OR ALL UNSPECIFIED RADII 0.25 EXCEPT AS NOTED.
7. DIMENSIONS SHOWN ABOUT A CENTERLINE ARE SYMMETRICAL ABOUT THAT CENTERLINE WITHIN HALF THE SPECIFIED TOLERANCE.



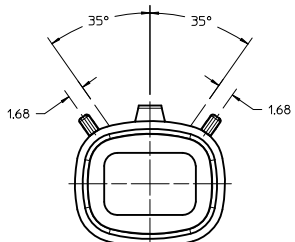
KEYING OPTION "A"  
SUGGESTED COLOR: BLACK



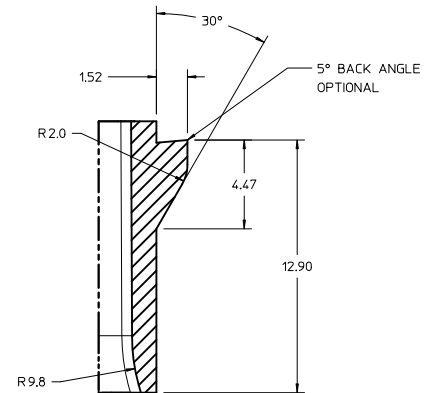
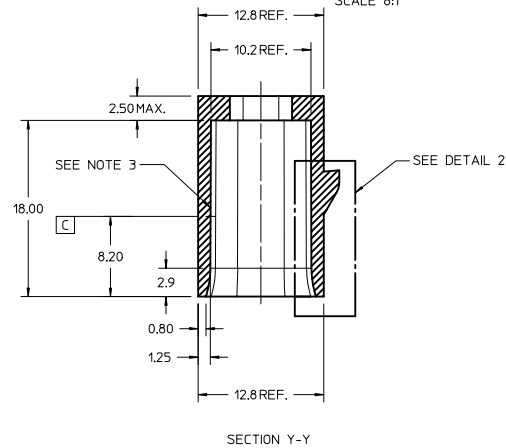
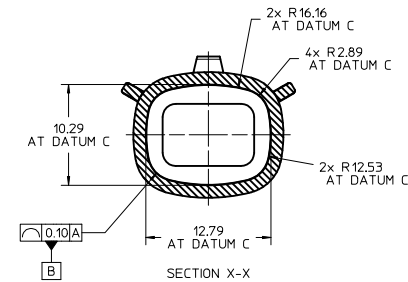
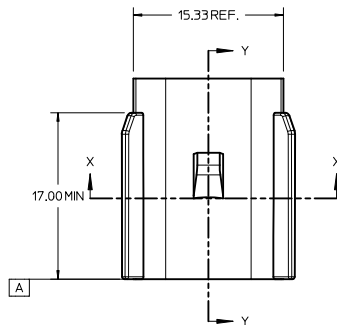
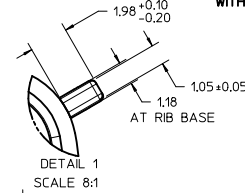
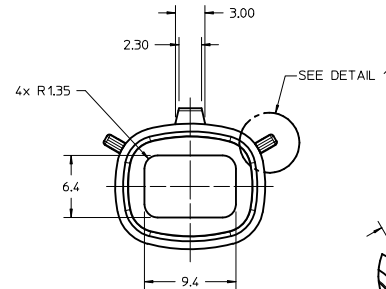
KEYING OPTION "B"  
SUGGESTED COLOR: GREY



KEYING OPTION "C"  
SUGGESTED COLOR: BROWN

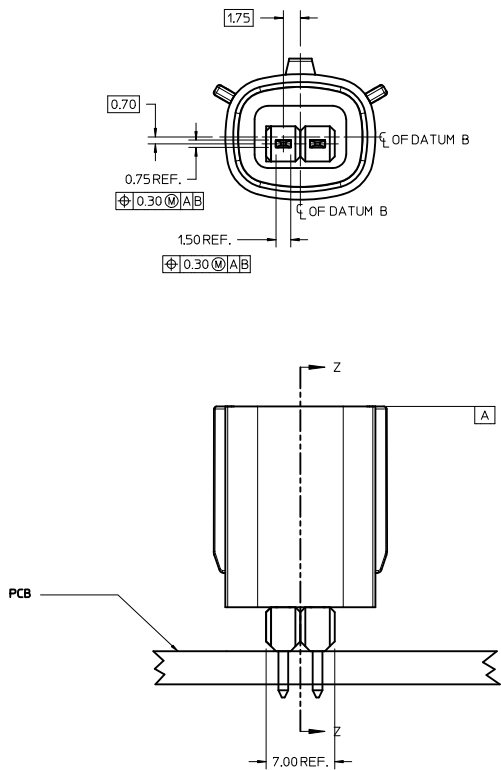


KEYING OPTION "D"  
SUGGESTED COLOR: GREEN



DETAIL 2  
SCALE 8:1

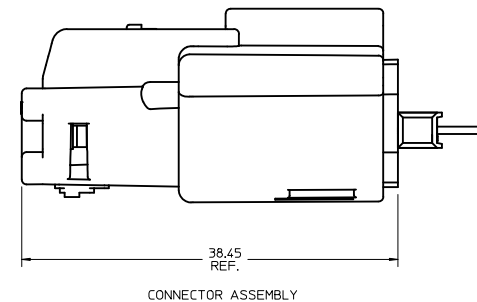
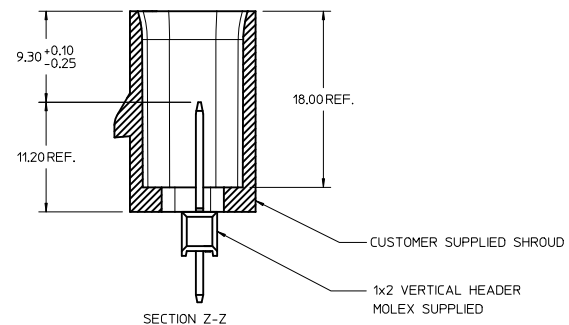
| QUALITY SYMBOLS     |  |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE |  | SCALE      |  | DESIGN UNITS       |  | THIRD ANGLE PROJECTION |  |
|---------------------|--|--|------------------------------------------------------|--|-----------------|--|------------|--|--------------------|--|------------------------|--|
|                     |  |  |                                                      |  | MM ONLY         |  | 4:1        |  | METRIC             |  |                        |  |
| INITIAL RELEASE     |  |  | 4 PLACES ±---                                        |  | DROSCA          |  | 2011/03/04 |  | APPLICATION SPEC   |  | 1 OF 2                 |  |
| EC NO: UCP2011-2687 |  |  | 3 PLACES ±---                                        |  | CHECKED BY      |  | DATE       |  | 1X2 MX150 HEADER   |  |                        |  |
| DRAWN DROSCA        |  |  | 2 PLACES ±0.13                                       |  | APPROVED BY     |  | DATE       |  | SHROUD DETAILS     |  |                        |  |
| CHKD:               |  |  | 1 PLACE ±0.25                                        |  | JCOMERCI        |  | 2011/03/11 |  | MOLEX INCORPORATED |  |                        |  |
| APPR: JCOMERCI      |  |  | ANGULAR ±1/2°                                        |  | WATERIAL NO.    |  | 75757-1020 |  | AS-75757-102       |  |                        |  |
| REV 1               |  |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  | DOCUMENT NO.    |  | 75757-1020 |  | MOLEX INCORPORATED |  |                        |  |
|                     |  |  |                                                      |  | SIZE D          |  |            |  |                    |  |                        |  |



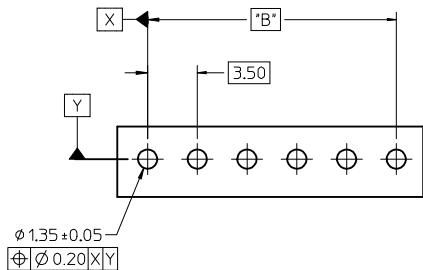
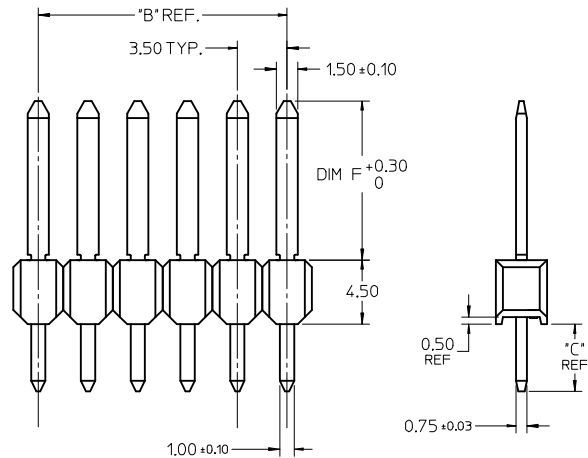
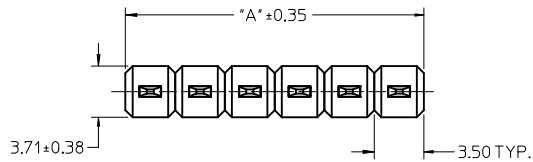
## HEADER APPLICATION DETAILS

### NOTES:

- ADHERENCE TO THE HEADER APPLICATION DETAILS IS IMPERATIVE TO ENSURE PROPER SHROUD SEALING AND CONTACT ALIGNMENT WHEN MATED WITH A MX150 FEMALE CONNECTOR.



|                                                                                                                                                                        |                                                          |                                                      |  |                     |  |                                                                                                                               |              |                                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|--|---------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------|--|
| <div>SEE SHEET 1</div> <div>IEC NO: UCP2011-2687</div> <div>DRAWN: DROSCA</div> <div>CHKD:</div> <div>APPR: JCOMERCI</div> <div>2011/03/04</div> <div>2011/03/11</div> | <div>QUALITY SYMBOLS</div> <div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE     |  | SCALE                                                                                                                         | DESIGN UNITS | <div>THIRD ANGLE PROJECTION</div> |  |
|                                                                                                                                                                        |                                                          |                                                      |  | MM ONLY             |  | 4:1                                                                                                                           | METRIC       |                                   |  |
|                                                                                                                                                                        |                                                          |                                                      |  | DRAWN BY DATE       |  | TITLE                                                                                                                         |              |                                   |  |
|                                                                                                                                                                        |                                                          |                                                      |  | DROSCA 2011/03/04   |  | APPLICATION SPEC                                                                                                              |              |                                   |  |
|                                                                                                                                                                        |                                                          |                                                      |  | CHECKED BY DATE     |  | 1X2 MX150 HEADER                                                                                                              |              |                                   |  |
|                                                                                                                                                                        |                                                          |                                                      |  | APPROVED BY DATE    |  | SHROUD DETAILS                                                                                                                |              |                                   |  |
|                                                                                                                                                                        |                                                          |                                                      |  | JCOMERCI 2011/03/11 |  | MOLEX INCORPORATED                                                                                                            |              |                                   |  |
|                                                                                                                                                                        |                                                          | ANGULAR ±1/2°                                        |  | MATERIAL NO.        |  | DOCUMENT NO.                                                                                                                  |              | SHEET NO.                         |  |
|                                                                                                                                                                        |                                                          |                                                      |  | 75757-1020          |  | AS-75757-102                                                                                                                  |              | 2 OF 2                            |  |
|                                                                                                                                                                        |                                                          |                                                      |  | SIZE                |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                                   |  |
|                                                                                                                                                                        |                                                          | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  |                     |  |                                                                                                                               |              |                                   |  |

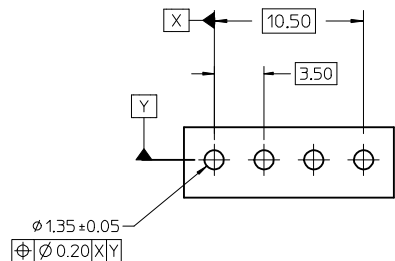
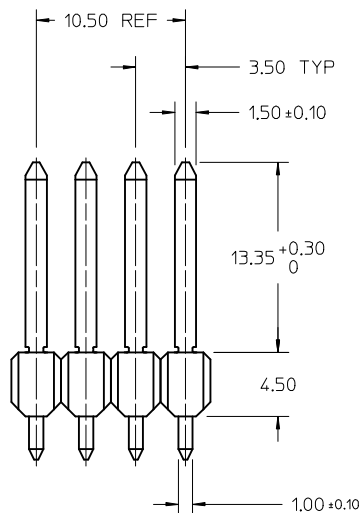
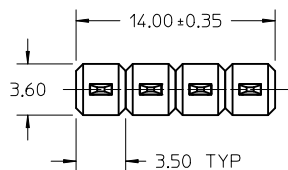


RECOMMENDED PCB LAYOUT

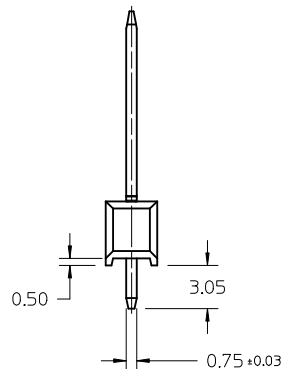
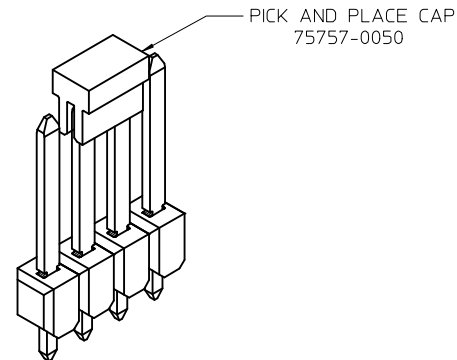
NOTES:

1. TERMINAL MAT'L: ALLOY C26000, CARTRIDGE BRASS
2. WAFER MAT'L: 30% GLASS FILLED LCP, 94V-0, COLOR BLACK.
3. TERMINAL PLATING:
  - OPTION 1 - 2.5µm MIN MATTE TIN OVERALL OVER 1.50µm MIN. NICKEL OVERALL
  - OPTION 2 - 1.50µm MIN. NICKEL OVERALL 4.00µm MIN SELECT MATTE TIN PC TAIL AREA 0.05µm MIN SELECT GOLD CONTACT AREA
  - OPTION 3 - 1.50µm MIN. NICKEL OVERALL 4.00µm MIN SELECT MATTE TIN PC TAIL AREA 0.50µm MIN. SELECT GOLD CONTACT AREA
  - OPTION 4 - 1.5µm MIN MATTE TIN OVERALL OVER 1.50µm MIN. NICKEL OVERALL
4. HEADER ASSEMBLIES ARE TUBE PACKAGED PER PK-36518-342.
5. MAXIMUM SKIVING ALLOWED: 1mm.
6. MAXIMUM CUT-OFF BURR ALLOWED: 0.30mm.
7. MAXIMUM DIG MARK ALLOWED: 0.45mm.

|                                                                                                                                  |                | TOOLED          |                                                            | TOOLED                                |                 | TOOLED              |                 | TOOLED                |                                                                                                                                  | STATUS                 |                 |                                                                                         |                              |                     |          |        |       |
|----------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|------------------------------------------------------------|---------------------------------------|-----------------|---------------------|-----------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|-----------------------------------------------------------------------------------------|------------------------------|---------------------|----------|--------|-------|
| 1 x 2                                                                                                                            | 1              | 75757-0121      | 11.20                                                      | 3.05                                  | 75757-0122      | 11.20               | 4.75            | 75757-0123            | 16.09                                                                                                                            | 3.05                   | 75757-0124      | 13.35                                                                                   | 3.05                         | 7                   | 3.5      |        |       |
|                                                                                                                                  | 2              | 75757-0221      |                                                            |                                       | 75757-0222      |                     |                 | 75757-0223            |                                                                                                                                  |                        | 75757-0224      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 3              | 75757-0321      |                                                            |                                       | 75757-0322      |                     |                 | 75757-0323            |                                                                                                                                  |                        | 75757-0324      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 4              | 75757-0421      |                                                            |                                       | 75757-0422      |                     |                 | 75757-0423            |                                                                                                                                  |                        | 75757-0424      |                                                                                         |                              |                     |          |        |       |
| 1 x 3                                                                                                                            | 1              | 75757-0131      | 11.20                                                      | 3.05                                  | 75757-0132      | 11.20               | 4.75            | 75757-0133            | 16.09                                                                                                                            | 3.05                   | 75757-0134      | 13.35                                                                                   | 3.05                         | 10.5                | 7.00     |        |       |
|                                                                                                                                  | 2              | 75757-0231      |                                                            |                                       | 75757-0232      |                     |                 | 75757-0233            |                                                                                                                                  |                        | 75757-0234      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 3              | 75757-0331      |                                                            |                                       | 75757-0332      |                     |                 | 75757-0333            |                                                                                                                                  |                        | 75757-0334      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 4              | 75757-0431      |                                                            |                                       | 75757-0432      |                     |                 | 75757-0433            |                                                                                                                                  |                        | 75757-0434      |                                                                                         |                              |                     |          |        |       |
| 1 x 4                                                                                                                            | 1              | 75757-0141      | 11.20                                                      | 3.05                                  | 75757-0142      | 11.20               | 4.75            | 75757-0143            | 16.09                                                                                                                            | 3.05                   | 75757-0144      | 13.35                                                                                   | 3.05                         | 14.0                | 10.50    |        |       |
|                                                                                                                                  | 2              | 75757-0241      |                                                            |                                       | 75757-0242      |                     |                 | 75757-0243            |                                                                                                                                  |                        | 75757-0244      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 3              | 75757-0341      |                                                            |                                       | 75757-0342      |                     |                 | 75757-0343            |                                                                                                                                  |                        | 75757-0344      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 4              | 75757-0441      |                                                            |                                       | 75757-0442      |                     |                 | 75757-0443            |                                                                                                                                  |                        | 75757-0444      |                                                                                         |                              |                     |          |        |       |
| 1 x 5                                                                                                                            | 1              | 75757-0151      | 11.20                                                      | 3.05                                  | 75757-0152      | 11.20               | 4.75            | 75757-0153            | 16.09                                                                                                                            | 3.05                   | 75757-0154      | 13.35                                                                                   | 3.05                         | 17.5                | 14.00    |        |       |
|                                                                                                                                  | 2              | 75757-0251      |                                                            |                                       | 75757-0252      |                     |                 | 75757-0253            |                                                                                                                                  |                        | 75757-0254      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 3              | 75757-0351      |                                                            |                                       | 75757-0352      |                     |                 | 75757-0353            |                                                                                                                                  |                        | 75757-0354      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 4              | 75757-0451      |                                                            |                                       | 75757-0452      |                     |                 | 75757-0453            |                                                                                                                                  |                        | 75757-0454      |                                                                                         |                              |                     |          |        |       |
| 1 x 6                                                                                                                            | 1              | 75757-0161      | 11.20                                                      | 3.05                                  | 75757-0162      | 11.20               | 4.75            | 75757-0163            | 16.09                                                                                                                            | 3.05                   | 75757-0164      | 13.35                                                                                   | 3.05                         | 21.0                | 17.50    |        |       |
|                                                                                                                                  | 2              | 75757-0261      |                                                            |                                       | 75757-0262      |                     |                 | 75757-0263            |                                                                                                                                  |                        | 75757-0264      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 3              | 75757-0361      |                                                            |                                       | 75757-0362      |                     |                 | 75757-0363            |                                                                                                                                  |                        | 75757-0364      |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  | 4              | 75757-0461      |                                                            |                                       | 75757-0462      |                     |                 | 75757-0463            |                                                                                                                                  |                        | 75757-0464      |                                                                                         |                              |                     |          |        |       |
| CKT SIZE                                                                                                                         | PLATING OPTION | MATERIAL NUMBER | *F* DIM                                                    | *C* DIM                               | MATERIAL NUMBER | *F* DIM             | *C* DIM         | MATERIAL NUMBER       | *F* DIM                                                                                                                          | *C* DIM                | MATERIAL NUMBER | *F* DIM                                                                                 | *C* DIM                      | *A* DIM             | *B* DIM  |        |       |
| USCAR NOTE REMOVED<br>EC NO: 12015-0177<br>2015/06/15<br>DRAWN BY: CHYKDBR02<br>2015/07/02<br>APPR: KPRASAD<br>2015/07/21<br>REV | K              | DESCRIPTION     | QUALITY SYMBOLS                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) |                 | DIMENSION STYLE     |                 | SCALE                 |                                                                                                                                  | DESIGN UNITS           |                 | THIRD ANGLE PROJECTION                                                                  |                              | SHEET NO.<br>1 OF 1 |          |        |       |
|                                                                                                                                  |                |                 | ▽=0<br>▽=0<br>▽=0                                          | mm                                    | INCH            | DRAWN BY<br>TMCLELL | DATE<br>1/24/06 | CHECKED BY<br>TMCLELL | DATE<br>1/24/06                                                                                                                  | APPROVED BY<br>BANAKIS | DATE<br>1/24/06 | TITLE<br>MX150 SINGLE ROW<br>UNSHROUDED VERTICAL<br>HEADER ASSEMBLY<br><br><b>molex</b> | DOCUMENT NO.<br>SD-75757-010 |                     |          |        |       |
|                                                                                                                                  |                |                 |                                                            |                                       |                 |                     |                 |                       |                                                                                                                                  |                        |                 |                                                                                         |                              |                     | 4 PLACES | ± ---  | ± --- |
|                                                                                                                                  |                |                 |                                                            |                                       |                 |                     |                 |                       |                                                                                                                                  |                        |                 |                                                                                         |                              |                     | 3 PLACES | ± ---  | ± --- |
|                                                                                                                                  |                |                 |                                                            |                                       |                 |                     |                 |                       |                                                                                                                                  |                        |                 |                                                                                         |                              |                     | 2 PLACES | ± 0.13 | ± --- |
|                                                                                                                                  |                |                 |                                                            |                                       |                 |                     |                 |                       |                                                                                                                                  |                        |                 |                                                                                         |                              |                     | 1 PLACE  | ± 0.25 | ± --- |
|                                                                                                                                  |                |                 | 0 PLACE                                                    | ±                                     | ±               | ANGULAR ±1/2°       |                 | SEE CHART             |                                                                                                                                  | SD-75757-010           |                 |                                                                                         |                              |                     |          |        |       |
|                                                                                                                                  |                |                 | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       |                 |                     | SIZE<br>A2      |                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                 |                                                                                         |                              |                     |          |        |       |



RECOMMENDED PCB LAYOUT



NOTES:

1. TERMINAL MAT'L: ALLOY C26000, CARTRIDGE BRASS
2. WAFER MAT'L: 30% GLASS FILLED LCP, 94V-0, COLOR BLACK.
3. TERMINAL PLATING: 1.5µm MIN MATTE TIN OVERALL OVER 1.25µm NICKEL OVERALL
4. HEADER ASSEMBLIES ARE TUBE PACKAGED PER PK-75757-9910.

|                                                                                                                            |                                          |             |                                       |        |       |                            |            |                                                                                                                               |                        |                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------|---------------------------------------|--------|-------|----------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|
| USCAR NOTE REMOVED<br>EC NO: 12015-0177<br>DRAWING: 2015/06/17<br>CHKD: BR02 2015/07/02<br>APPR: XPRASAD 2015/07/21<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |        |       | DIMENSION STYLE<br>MM ONLY |            | SCALE<br>4:1                                                                                                                  | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION |
|                                                                                                                            |                                          |             |                                       | mm     | INCH  | DRAWN BY                   | DATE       | TITLE                                                                                                                         |                        |                                                                                                              |
|                                                                                                                            |                                          |             | 4 PLACES                              | ± ---  | ± --- | DROSCA                     | 2012/04/13 | MX150 SINGLE ROW<br>1X4 VERTICAL<br>HEADER ASSEMBLY                                                                           |                        |                                                                                                              |
|                                                                                                                            |                                          |             | 3 PLACES                              | ± ---  | ± --- | CHECKED BY                 | DATE       |                                                                                                                               |                        |                                                                                                              |
|                                                                                                                            |                                          |             | 2 PLACES                              | ± 0.13 | ± --- | DROSCA                     | 2012/04/16 | molex                                                                                                                         |                        |                                                                                                              |
|                                                                                                                            |                                          |             | 1 PLACE                               | ± 0.25 | ± --- | APPROVED BY                | DATE       |                                                                                                                               |                        |                                                                                                              |
|                                                                                                                            |                                          |             | 0 PLACE                               | ±      |       | JCOMERC I                  | 2012/05/09 | DOCUMENT NO.                                                                                                                  |                        |                                                                                                              |
|                                                                                                                            |                                          |             | ANGULAR ±1/2°                         |        |       | MATERIAL NO.               |            | SHEET NO.                                                                                                                     |                        |                                                                                                              |
|                                                                                                                            |                                          |             | DRAFT WHERE APPLICABLE                |        |       | 757570444                  |            | SD-75757-0444                                                                                                                 |                        |                                                                                                              |
|                                                                                                                            |                                          |             | MUST REMAIN WITHIN DIMENSIONS         |        |       | SIZE A2                    |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                                                                                              |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.