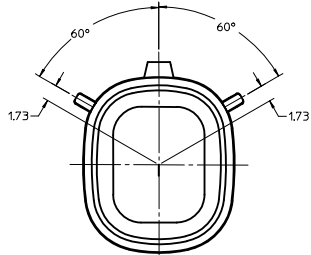
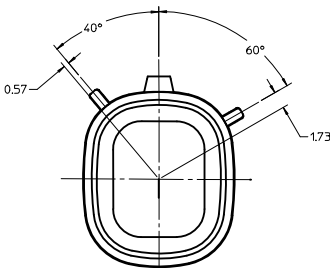


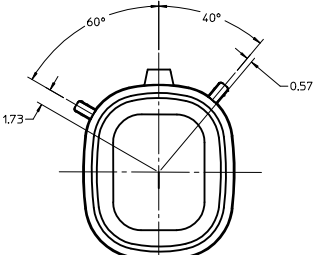
# CUSTOMER SHROUD DESIGN DETAILS



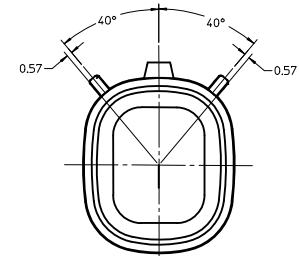
**KEYING OPTION 'A'**  
SUGGESTED COLOR: BLACK



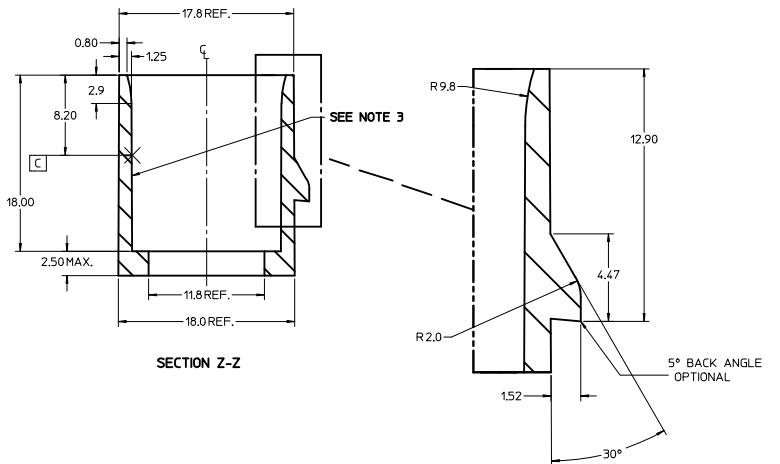
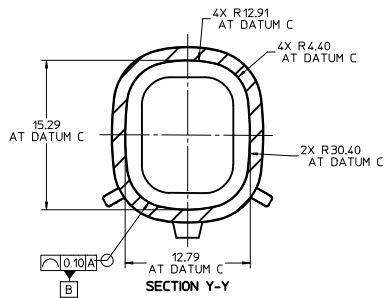
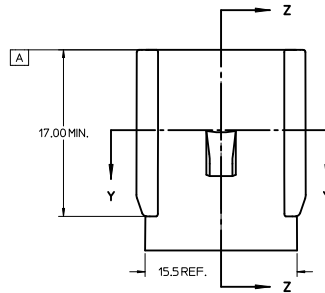
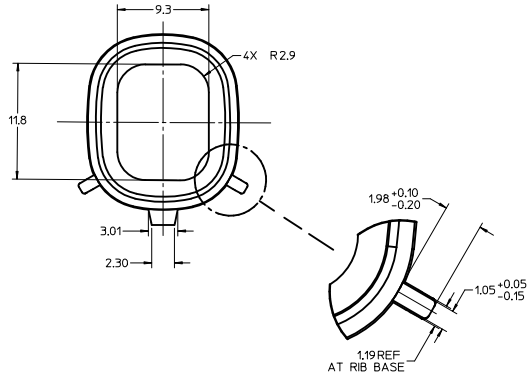
**KEYING OPTION 'B'**  
SUGGESTED COLOR: GREY



**KEYING OPTION 'C'**  
SUGGESTED COLOR: BROWN



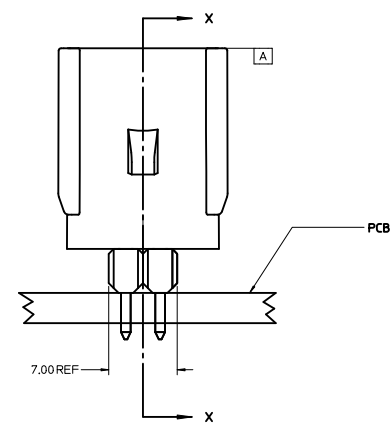
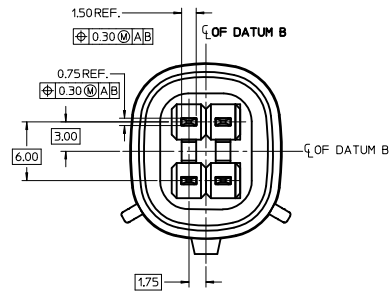
**KEYING OPTION 'D'**  
SUGGESTED COLOR: GREEN



## NOTES:

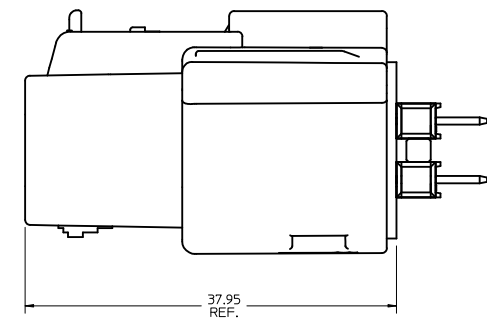
1. REFER TO MOLEX SALES DRAWING SD-75757-002 FOR THE HEADER ASSEMBLY PRODUCT DETAILS AND RECOMMENDED PCB LAYOUT.
2. KEYING OPTIONS A-D AND SUGGESTED COLORS COMPLY TO THE POLARIZATION STANDARDS ESTABLISHED FOR MATING WITH A MX150 FEMALE CONNECTOR.
3. INTERIOR SHROUD SURFACE MUST BE FREE OF DEFECTS AND 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.

| QUALITY SYMBOLS |  | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE                                                                                                               |  | SCALE        |  | DESIGN UNITS       |  | THIRD ANGLE PROJECTION |  |
|-----------------|--|---------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|--------------------|--|------------------------|--|
|                 |  |                                       |  | MM ONLY                                                                                                                       |  | 4:1          |  | METRIC             |  |                        |  |
| DRAWN BY        |  | J JANTELEZIO                          |  | DATE                                                                                                                          |  | 05/08/2006   |  | TITLE              |  | APPLICATION SPEC       |  |
| CHECKED BY      |  | TMCLELL                               |  | DATE                                                                                                                          |  | 05/08/2006   |  | 2X2 MX150 HEADER   |  | SHROUD DETAILS         |  |
| APPROVED BY     |  | BANKIS                                |  | DATE                                                                                                                          |  | 05/08/2006   |  | MOLEX INCORPORATED |  |                        |  |
| MATERIAL NO.    |  | 75757-2020                            |  | DOCUMENT NO.                                                                                                                  |  | AS-75757-002 |  |                    |  |                        |  |
| SIZE            |  | D                                     |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |              |  |                    |  | SHEET NO.              |  |
|                 |  |                                       |  |                                                                                                                               |  |              |  |                    |  | 1 OF 2                 |  |

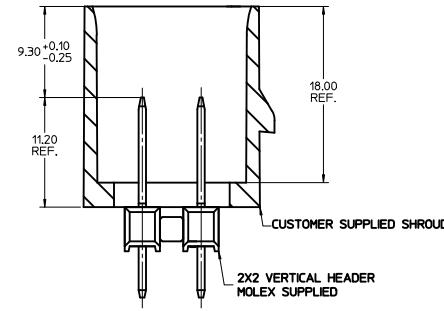
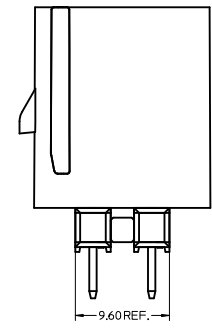


HEADER APPLICATION DETAILS

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

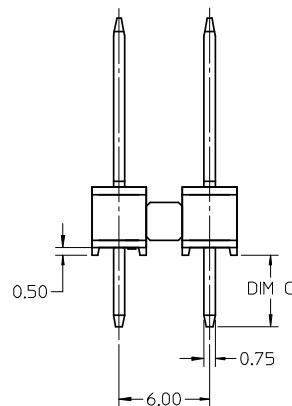
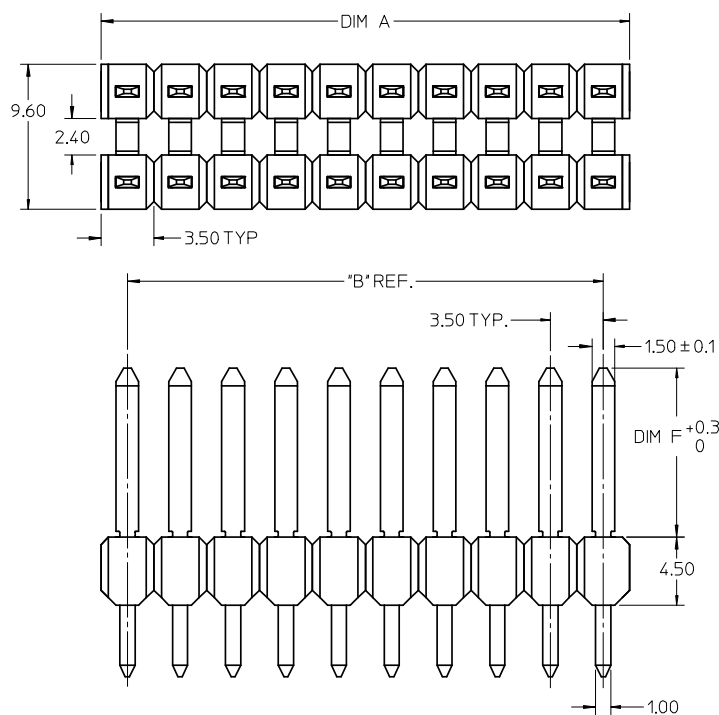


CONNECTOR ASSEMBLY

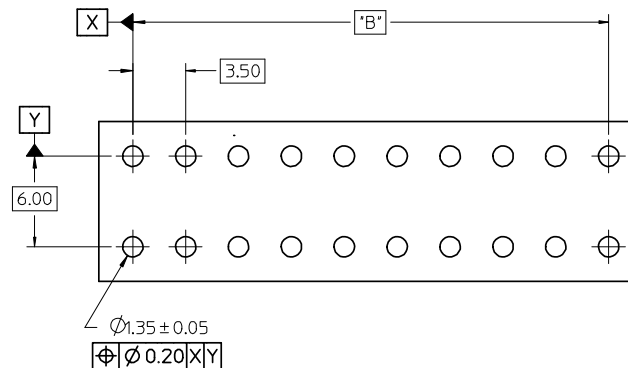


SECTION X-X

|                                                                                                                          |                                   |                                                            |        |                                                                                                                                  |                         |                              |                        |                                                                                                              |                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| SEE SHT 1<br>EC NO: UCP2011-2680<br>D<br>DRAWN BY: DRWNDRSCA<br>CHKD: CHYD<br>APPR: JCOMERCL<br>2011/03/04<br>2011/03/07 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY                                                                                                       |                         | SCALE<br>4:1                 | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION |                                                                                  |
|                                                                                                                          |                                   |                                                            | mm     | INCH                                                                                                                             | DRAWN BY<br>JJANTELEZIO | DATE<br>05/08/2006           | TITLE                  |                                                                                                              | APPLICATION SPEC<br>2X2 MX150 HEADER<br>SHROUD DETAILS<br><br>MOLEX INCORPORATED |
|                                                                                                                          |                                   | 4 PLACES                                                   | ±      | ±                                                                                                                                | CHECKED BY<br>TMCLELL   | DATE<br>05/08/2006           |                        |                                                                                                              |                                                                                  |
|                                                                                                                          |                                   | 3 PLACES                                                   | ±      | ±                                                                                                                                | APPROVED BY<br>BANAKIS  | DATE<br>05/08/2006           |                        |                                                                                                              |                                                                                  |
|                                                                                                                          |                                   | 2 PLACES                                                   | ± 0.01 | ±                                                                                                                                |                         |                              |                        |                                                                                                              |                                                                                  |
|                                                                                                                          |                                   | 1 PLACE                                                    | ± 0.2  | ±                                                                                                                                |                         |                              |                        |                                                                                                              |                                                                                  |
|                                                                                                                          |                                   | ANGULAR ± 1/2°                                             |        | MATERIAL NO.<br>75757-2020                                                                                                       |                         | DOCUMENT NO.<br>AS-75757-202 |                        | SHEET NO.<br>2 OF 2                                                                                          |                                                                                  |
|                                                                                                                          |                                   | 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 |                         |                              |                        |                                                                                                              |                                                                                  |



- 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 4 - 1.5µm MIN MATTE TIN OVERALL OVER 1.25µm NICKEL OVERALL
    - OPTION 1 - 2.5µm MIN MATTE TIN OVERALL OVER 1.25µm NICKEL OVERALL
    - OPTION 2 - 1.25µm NICKEL OVERALL 2.5µm MIN SELECT MATTE TIN PC TAIL AREA 0.05-0.25µm SELECT GOLD CONTACT AREA
    - OPTION 3 - 1.25µm NICKEL OVERALL 2.5µm MIN SELECT MATTE TIN PC TAIL AREA 0.75µm SELECT GOLD CONTACT AREA
  4. HEADER ASSEMBLIES ARE TUBE PACKAGED PER PK-75757-9900.
  5. COMPLIES WITH USCAR 1.5mm TERMINAL BLADE SPECIFICATION.



RECOMMENDED PCB LAYOUT

|                                                                                                                              |             |                                                                                                                               |                                       |        |              |                            |                 |                                                                   |                        |                        |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------|--------------|----------------------------|-----------------|-------------------------------------------------------------------|------------------------|------------------------|--|--|--|
| REMOVED EXTRA DIM<br>EC NO: UCP2009-0126<br>DRAWN: DRWSCA 2008/07/16<br>CHKD: JCOMERC 2008/07/16<br>APPR: JCOMERC 2008/07/16 | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0                                                                                             | GENERAL TOLERANCES (UNLESS SPECIFIED) |        |              | DIMENSION STYLE<br>MM ONLY |                 | SCALE<br>4:1                                                      | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |  |  |
|                                                                                                                              |             |                                                                                                                               |                                       | mm     | INCH         | DRAWN BY<br>TMCLELL        | DATE<br>1/18/05 | TITLE<br>MX150 DUAL ROW<br>BREAK-AWAY VERTICAL<br>HEADER ASSEMBLY |                        |                        |  |  |  |
|                                                                                                                              |             |                                                                                                                               | 4 PLACES                              | ± ---  | ± ---        | CHECKED BY                 | DATE            |                                                                   |                        |                        |  |  |  |
|                                                                                                                              |             |                                                                                                                               | 3 PLACES                              | ± ---  | ± ---        | TMCLELL                    | 1/18/05         |                                                                   |                        |                        |  |  |  |
|                                                                                                                              |             |                                                                                                                               | 2 PLACES                              | ± 0.13 | ± ---        | APPROVED BY                | DATE            | MOLEX MOLEX INCORPORATED                                          |                        |                        |  |  |  |
|                                                                                                                              |             |                                                                                                                               | 1 PLACE                               | ± 0.25 | ± ---        | BANAKIS                    | 1/18/05         |                                                                   |                        |                        |  |  |  |
|                                                                                                                              |             |                                                                                                                               | ANGULAR ±1/2°                         |        |              | MATERIAL NO.               |                 | DOCUMENT NO.                                                      |                        | SHEET NO.              |  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                   |             |                                                                                                                               | SEE CHART                             |        | SD-75757-002 |                            | 1 OF 2          |                                                                   |                        |                        |  |  |  |
| REV                                                                                                                          | SIZE<br>C   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |        |              |                            |                 |                                                                   |                        |                        |  |  |  |

[illegible]