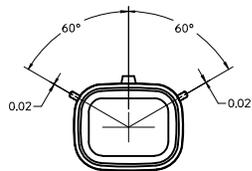


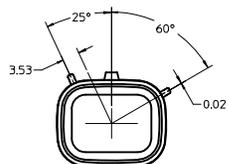
CUSTOMER SHROUD DESIGN DETAILS

NOTES:

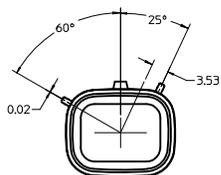
- REFER TO MOLEX SALES DRAWING SD-75900-001 FOR THE R/A HEADER ASSEMBLY PRODUCT DETAILS AND RECOMMENDED PCB LAYOUT.
- KEYING OPTIONS A-D AND SUGGESTED COLORS COMPLY TO THE POLARIZATION STANDARDS ESTABLISHED FOR MATING WITH A MX150 FEMALE CONNECTOR.
- INTERIOR SHROUD SURFACE MUST BE FREE OF DEFECTS AND PARTING LINES ALL AROUND TO ENSURE PROPER SEALING OF THE MATING MX150 FEMALE CONNECTOR.
- 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.
- PERMISSIBLE DRAFT ANGLE 0.25\014\048\015 MAXIMUM.
- RADII ON ALL CORNERS SHOWN SHARP OR ALL UNSPECIFIED RADII 0.25 EXCEPT AS NOTED.
- DIMENSIONS SHOWN ABOUT A CENTERLINE ARE SYMMETRICAL ABOUT THAT CENTERLINE WITHIN HALF THE SPECIFIED TOLERANCE.



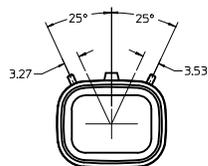
KEYING OPTION 'A'
SUGGESTED COLOR BLACK



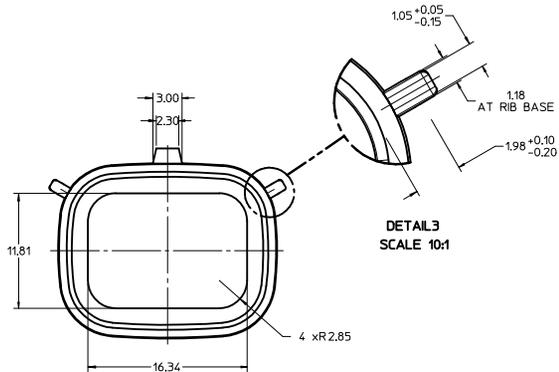
KEYING OPTION 'B'
SUGGESTED COLOR GREY



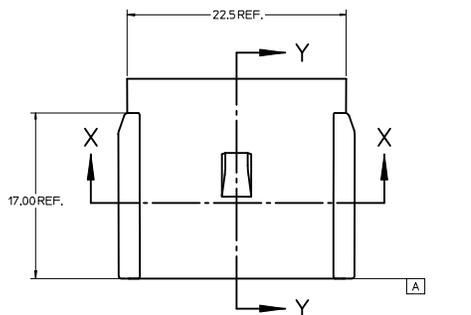
KEYING OPTION 'C'
SUGGESTED COLOR BROWN



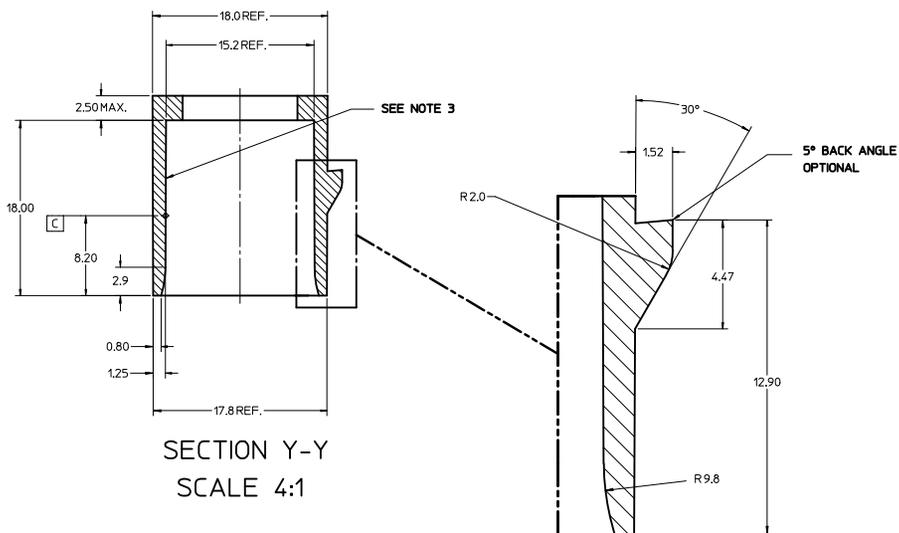
KEYING OPTION 'D'
SUGGESTED COLOR GREEN



DETAIL3
SCALE 10:1

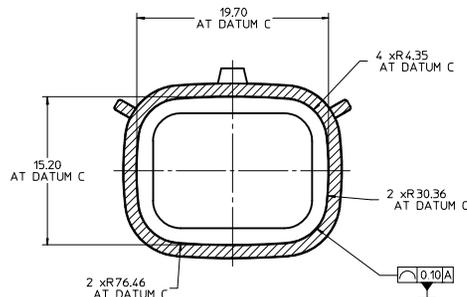


SECTION X-X
SCALE 4:1

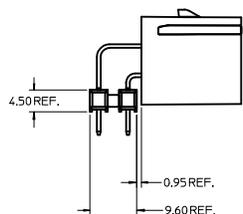
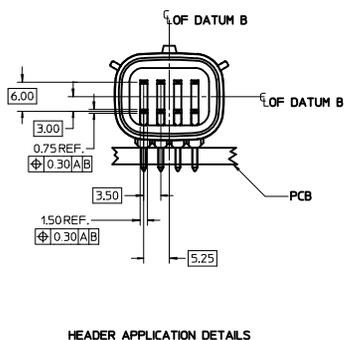
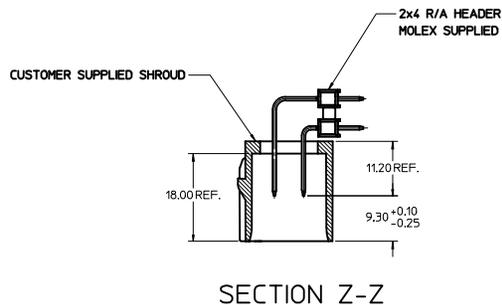
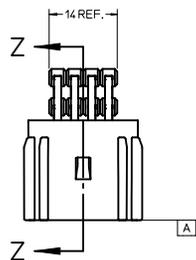


SECTION Y-Y
SCALE 4:1

DETAIL2
SCALE 10:1

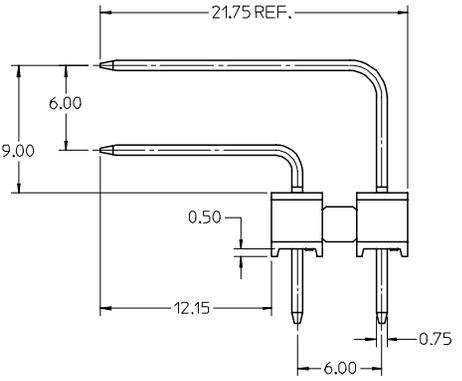
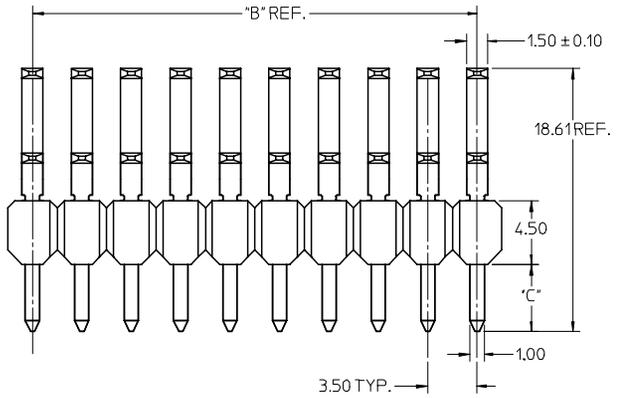
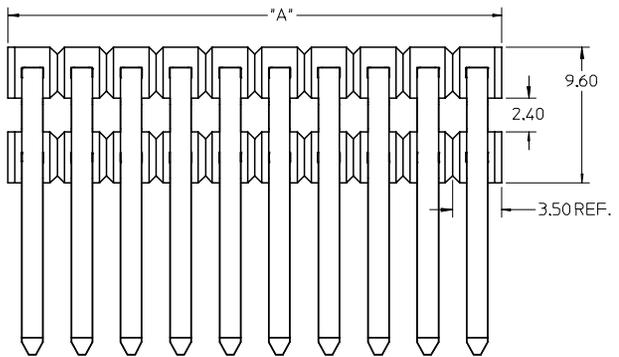


| | | | |
|--|---|---|--|
| CHANGE CLASS EC NO: UCP2012-0666 DRAWN BY: DRWN:DROSCA CHKD: APPR: JCOMERCI DATE: 2011/09/16 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 1/2° | DIMENSION STYLE MM ONLY SCALE 2:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. 75900-2040 DOCUMENT NO. AS-75900-204 | APPLICATION SPEC 2X4 MX150 R/A HEADER SHROUD DETAILS MOLEX INCORPORATED |
| | SIZE D | SHEET NO. 1 OF 2 | MOLEX INCORPORATED |
| | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |

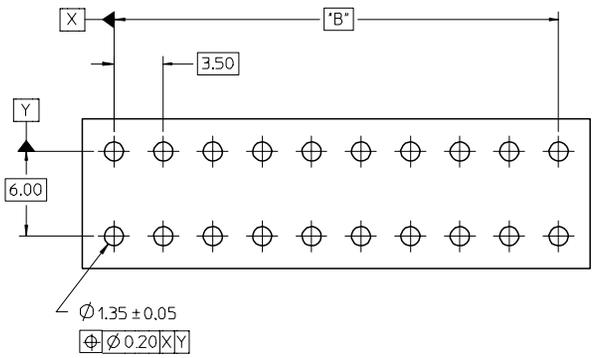


NOTES:
1. ADHERENCE TO THE HEADER APPLICATION DETAILS IS IMPERATIVE TO ENSURE PROPOER SHROUD SEALING AND CONTACT ALIGNMENT WHEN MATED WITH A MX150 FEMALE CONNECTOR.

| | | | | | | | |
|---|--|---|--------------------|------------------------------|--------------|---|--|
| ENTER DESCRIPTION IEC NO. UCF2012-0866 DRAWN BY: DROS CHYD: APPR: JCOMERCI 2011/09/16 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | =0 =0 | mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.2 ± --- ANGULAR ± 1/2° | MM ONLY | 2:1 | METRIC | DRAWN BY: DROS DATE: 04/26/07 CHECKED BY: JCOMERCI DATE: 04/26/07 APPROVED BY: JCOMERCI DATE: 04/26/07 | TITLE: APPLICATION SPEC 2X4 MX150 R/A HEADER SHROUD DETAILS |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO: 75900-2040 | MOLEX INCORPORATED | SHEET NO. 2 OF 2 | | | |
| | SIZE: D | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | DOCUMENT NO. AS-75900-204 | | | |



- 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-75900-9900.
 5. COMPLIES WITH USCAR 1.5mm TERMINAL BLADE SPECIFICATION.



RECOMMENDED PCB LAYOUT

| CKT SIZE | PLATING OPTION | MATERIAL NUMBER | *A* DIM | *B* DIM | *C* DIM | MATERIAL NUMBER | *A* DIM | *B* DIM | *C* DIM |
|----------|----------------|-----------------|---------|----------|---------|-----------------|---------|----------|---------|
| 2 x 2 | 1 | 75900-1121 | 7.0 | 3.50 REF | | 75900-1122 | 7.0 | 3.50 REF | |
| | 2 | 75900-1221 | | | | 75900-1222 | | | |
| | 3 | 75900-1321 | | | | 75900-1322 | | | |
| | 4 | 75900-1421 | | | | 75900-1422 | | | |
| 2 x 3 | 1 | 75900-1131 | 10.5 | 7.00 | | 75900-1132 | 10.5 | 7.00 | |
| | 2 | 75900-1231 | | | | 75900-1232 | | | |
| | 3 | 75900-1331 | | | | 75900-1332 | | | |
| | 4 | 75900-1431 | | | | 75900-1432 | | | |
| 2 x 4 | 1 | 75900-1141 | 14.0 | 10.50 | 3.05 | 75900-1142 | 14.0 | 10.50 | 4.75 |
| | 2 | 75900-1241 | | | | 75900-1242 | | | |
| | 3 | 75900-1341 | | | | 75900-1342 | | | |
| | 4 | 75900-1441 | | | | 75900-1442 | | | |
| 2 x 6 | 1 | 75900-1161 | 21.0 | 17.50 | | 75900-1162 | 21.0 | 17.50 | |
| | 2 | 75900-1261 | | | | 75900-1262 | | | |
| | 3 | 75900-1361 | | | | 75900-1362 | | | |
| | 4 | 75900-1461 | | | | 75900-1462 | | | |
| 2 x 8 | 1 | 75900-1181 | 28.0 | 24.50 | | 75900-1182 | 28.0 | 24.50 | |
| | 2 | 75900-1281 | | | | 75900-1282 | | | |
| | 3 | 75900-1381 | | | | 75900-1382 | | | |
| | 4 | 75900-1481 | | | | 75900-1482 | | | |
| 2 x 10 | 1 | 75900-1101 | 35.0 | 31.50 | | 75900-1102 | 35.0 | 31.50 | |
| | 2 | 75900-1201 | | | | 75900-1202 | | | |
| | 3 | 75900-1301 | | | | 75900-1302 | | | |
| | 4 | 75900-1401 | | | | 75900-1402 | | | |

| | | | | | | | | | |
|---|-------------------------------|--|---------|---------------------------------|-----------------|---|------------------------|---|--|
| PRELIM RELEASE FCC NO: UCP2006-2758 DRAWN: J. SWENSON 2007/01/17 CHKD: 2007/01/17 APPR: MBANAKIS 2007/01/18 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ±1/2° | mm INCH | DRAWN BY TMCCLELL | DATE 1/25/06 | CHECKED BY TMCCLELL | DATE 1/25/06 | MX150 RIGHT ANGLE DUAL ROW BREAK-AWAY HEADER ASSEMBLY | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SEE CHART | | MATERIAL NO. BANAKIS 1/25/06 | | MOLEX INCORPORATED | | DOCUMENT NO. SD-75900-001 | |
| | | | | SIZE C | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | SHEET NO. 1 OF 1 | |