

## Excellent Integrated System Limited

Stocking Distributor

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[Molex Connector Corporation](#)  
[0759001281](#)

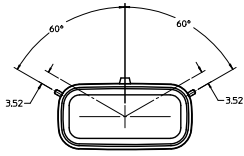
For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

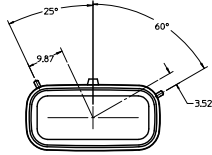
# CUSTOMER SHROUD DESIGN DETAILS

## NOTES:

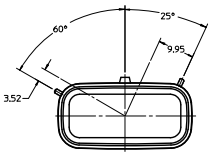
1. REFER TO MOLEX SALES DRAWING SD-75900-001 FOR THE R/A HEADER ASSEMBLY PRODUCT DETAILS AND RECOMMENDED PCB LAYOUT.
2. KEYING OPTIONS A-D AND SUGGESTED COLORS COMPLY TO THE POLARIZATION STANDARDS ESTABLISHED FOR MATING WITH A MX150 FEMALE CONNECTOR.
3. INTERIOR SHROUD SURFACE MUST BE FREE OF DEFECTS 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 SCOPING DAMAGE TO THE HEADER CONTACTS.
5. PERMISSIBLE DRAFT ANGLE 0.25/0.04/0.015 MAXIMUM.
6. RADI ON ALL CORNERS SHOWN SHARP OR ALL UNSPECIFIED RADI 0.25 EXCEPT AS NOTED.
7. DIMENSIONS SHOWN ABOUT A CENTERLINE ARE SYMMETRICAL ABOUT THAT CENTERLINE WITHIN HALF THE SPECIFIED TOLERANCE.



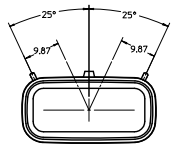
KEYING OPTION 'A'  
SUGGESTED COLOR: BLACK



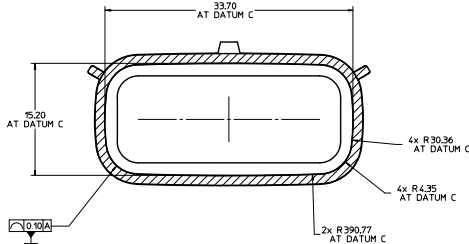
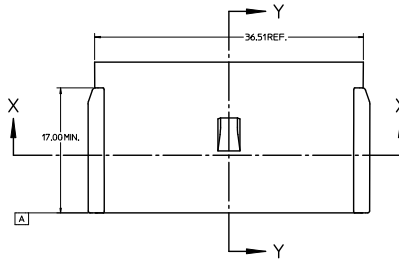
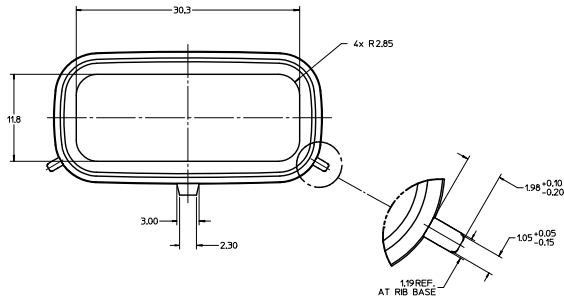
KEYING OPTION 'B'  
SUGGESTED COLOR: GREY



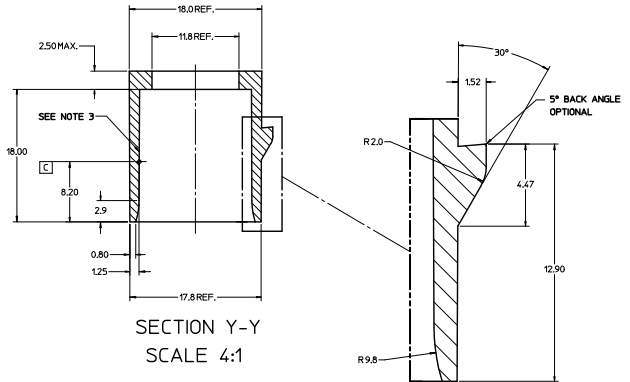
KEYING OPTION 'C'  
SUGGESTED COLOR: BROWN



KEYING OPTION 'D'  
SUGGESTED COLOR: GREEN

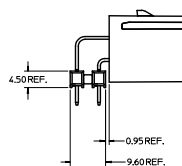


SECTION X-X  
SCALE 4:1



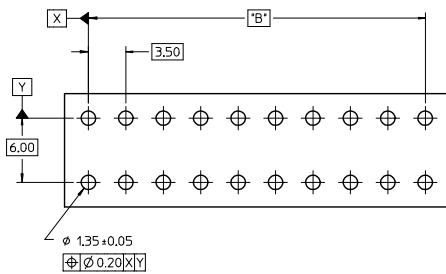
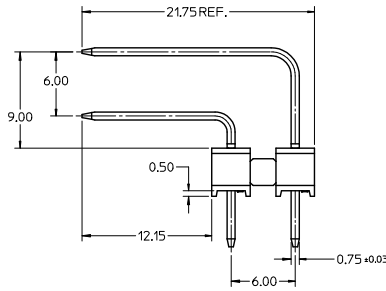
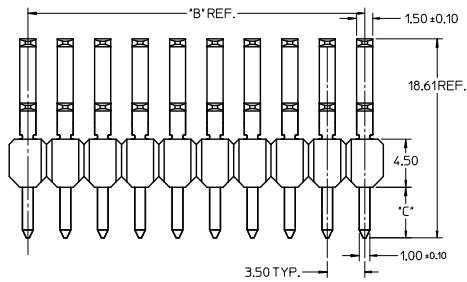
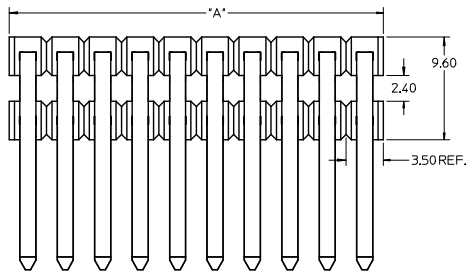
SECTION Y-Y  
SCALE 4:1

|                                                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 |                                                                                       |                                                                                                                                                           |                            |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>CHANGE CLASS</b><br>EC: NO. 12/2012-0866<br>B<br>ECN: 0000<br>APPR: 0000<br>REV: 0000 | <b>QUALITY SYMBOLS</b><br><div> <div> <div>0</div> <div>0</div> </div> <div> <div>0</div> <div>0</div> </div> </div> | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b><br><div> <div>4 PLACES</div> <div>3 PLACES</div> <div>2 PLACES</div> <div>1 PLACE</div> </div> <div> <div>mm</div> <div>INCH</div> </div> <div> <div>±0.10</div> <div>±0.05</div> <div>±0.02</div> <div>±0.01</div> </div> <div> <div>ANGULAR ±1/2°</div> </div> | <b>DIMENSION STYLE</b><br>MM ONLY<br><div> <div>DRAWN BY</div> <div>CHECKED BY</div> <div>APPROVED BY</div> </div> <div> <div>DATE</div> <div>DATE</div> <div>DATE</div> </div> | <b>SCALE</b><br>2:1<br><b>DESIGN UNITS</b><br>METRIC<br><b>THIRD ANGLE PROJECTION</b> | <b>APPLICATION SPEC</b><br>2X8 MX150 R/A HEADER SHROUD DETAILS<br><b>MOLEX INCORPORATED</b><br><div> <div>75900-2080</div> <div>AS-75900-208</div> </div> | <b>SHEET NO.</b><br>1 OF 2 |
|                                                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 |                                                                                       |                                                                                                                                                           |                            |
|                                                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 |                                                                                       |                                                                                                                                                           |                            |
|                                                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                 |                                                                                       |                                                                                                                                                           |                            |



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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| ENTER DESCRIPTION<br>02/07/2020<br>02/08/2016<br>02/09/2016<br>02/10/2016<br>02/11/2016<br>02/12/2016<br>03/01/2016<br>03/02/2016<br>03/03/2016<br>03/04/2016<br>03/05/2016<br>03/06/2016<br>03/07/2016<br>03/08/2016<br>03/09/2016<br>03/10/2016<br>03/11/2016<br>03/12/2016<br>04/01/2016<br>04/02/2016<br>04/03/2016<br>04/04/2016<br>04/05/2016<br>04/06/2016<br>04/07/2016<br>04/08/2016<br>04/09/2016<br>04/10/2016<br>04/11/2016<br>04/12/2016<br>05/01/2016<br>05/02/2016<br>05/03/2016<br>05/04/2016<br>05/05/2016<br>05/06/2016<br>05/07/2016<br>05/08/2016<br>05/09/2016<br>05/10/2016<br>05/11/2016<br>05/12/2016<br>06/01/2016<br>06/02/2016<br>06/03/2016<br>06/04/2016<br>06/05/2016<br>06/06/2016<br>06/07/2016<br>06/08/2016<br>06/09/2016<br>06/10/2016<br>06/11/2016<br>06/12/2016<br>07/01/2016<br>07/02/2016<br>07/03/2016<br>07/04/2016<br>07/05/2016<br>07/06/2016<br>07/07/2016<br>07/08/2016<br>07/09/2016<br>07/10/2016<br>07/11/2016<br>07/12/2016<br>08/01/2016<br>08/02/2016<br>08/03/2016<br>08/04/2016<br>08/05/2016<br>08/06/2016<br>08/07/2016<br>08/08/2016<br>08/09/2016<br>08/10/2016<br>08/11/2016<br>08/12/2016<br>09/01/2016<br>09/02/2016<br>09/03/2016<br>09/04/2016<br>09/05/2016<br>09/06/2016<br>09/07/2016<br>09/08/2016<br>09/09/2016<br>09/10/2016<br>09/11/2016<br>09/12/2016<br>10/01/2016<br>10/02/2016<br>10/03/2016<br>10/04/2016<br>10/05/2016<br>10/06/2016<br>10/07/2016<br>10/08/2016<br>10/09/2016<br>10/10/2016<br>10/11/2016<br>10/12/2016<br>11/01/2016<br>11/02/2016<br>11/03/2016<br>11/04/2016<br>11/05/2016<br>11/06/2016<br>11/07/2016<br>11/08/2016<br>11/09/2016<br>11/10/2016<br>11/11/2016<br>11/12/2016<br>12/01/2016<br>12/02/2016<br>12/03/2016<br>12/04/2016<br>12/05/2016<br>12/06/2016<br>12/07/2016<br>12/08/2016<br>12/09/2016<br>12/10/2016<br>12/11/2016<br>12/12/2016 | QUALITY SYMBOLS<br>○<br>▽<br>△ | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>DIMENSION STYLE<br>MM ONLY<br>DECIMALS<br>0.1<br>0.05<br>0.025<br>0.0125<br>0.00625<br>0.003125<br>0.0015625<br>0.00078125<br>0.000390625<br>0.0001953125<br>0.00009765625<br>0.000048828125<br>0.0000244140625<br>0.00001220703125<br>0.000006103515625<br>0.0000030517578125<br>0.00000152587890625<br>0.000000762939453125<br>0.0000003814697265625<br>0.00000019073486328125<br>0.000000095367431640625<br>0.0000000476837158203125<br>0.00000002384185791015625<br>0.000000011920928955078125<br>0.0000000059604644775390625<br>0.00000000298023223876953125<br>0.000000001490116119384765625<br>0.0000000007450580596923828125<br>0.00000000037252902984619140625<br>0.000000000186264514923095703125<br>0.0000000000931322574615478515625<br>0.00000000004656612873077392578125<br>0.000000000023283064365386962890625<br>0.0000000000116415321826934814453125<br>0.00000000000582076609134674072265625<br>0.000000000002910383045673370361328125<br>0.0000000000014551915228366851806640625<br>0.00000000000072759576141834259033203125<br>0.000000000000363797880709171295166015625<br>0.0000000000001818989403545856475830078125<br>0.00000000000009094947017729282379150390625<br>0.000000000000045474735088646411895751953125<br>0.0000000000000227373675443232059478759765625<br>0.00000000000001136868377216160297393798828125<br>0.000000000000005684341886080801486968994140625<br>0.0000000000000028421709430404007434844970703125<br>0.00000000000000142108547152020037174224853515625<br>0.000000000000000710542735760100185871124267578125<br>0.0000000000000003552713678800500929355621337890625<br>0.00000000000000017763568394002504646778106689453125<br>0.000000000000000088817841970012523233890533447265625<br>0.0000000000000000444089209850062616169452667236328125<br>0.00000000000000002220446049250313080847263336181640625<br>0.000000000000000011102230246251565404236316680908203125<br>0.0000000000000000055511151231257827021118158404541015625<br>0.00000000000000000277555756156289135105590792022705078125<br>0.000000000000000001387778780781445675527953960113525390625<br>0.0000000000000000006938893903907228377639769800567626953 |
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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 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-36518-351.

| PKT 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    |         | 75900-1142      | 14.0    | 10.50    |         |
|          | 2              | 75900-1241      |         |          |         | 75900-1242      |         |          |         |
|          | 3              | 75900-1341      |         |          |         | 75900-1342      |         |          |         |
|          | 4              | 75900-1441      |         |          |         | 75900-1442      |         |          |         |
| 2 x 5    | 1              | 75900-1151      | 17.5    | 14.00    | 3.05    | 75900-1152      | 17.5    | 14.00    | 4.75    |
|          | 2              | 75900-1251      |         |          |         | 75900-1252      |         |          |         |
|          | 3              | 75900-1351      |         |          |         | 75900-1352      |         |          |         |
|          | 4              | 75900-1451      |         |          |         | 75900-1452      |         |          |         |
| 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      |         |          |         |
| CKT SIZE | PLATING OPTION | MATERIAL NUMBER | 'A' DIM | 'B' DIM  | 'C' DIM | MATERIAL NUMBER | 'A' DIM | 'B' DIM  | 'C' DIM |

PK SPEC UPDATED  
EC NO: 2016-0115  
C DRAINBRO2  
CHKD:  
APPR:KPRASAD  
REV

2016/05/16  
2016/06/03  
DESCRIPTION

QUALITY SYMBOLS  
▽=0  
▽=0  
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)  
mm INCH  
4 PLACES ±--- ±---  
3 PLACES ±--- ±---  
2 PLACES ±0.13 ±---  
1 PLACE ±0.25 ±---  
0 PLACE ± ±  
ANGULAR ±1/2°  
DRAFT WHERE APPLICABLE  
MUST REMAIN WITHIN DIMENSIONS

DRAGON STYLE  
MM ONLY  
DRAWN BY DATE  
TMCLELL 1/25/06  
CHECKED BY DATE  
TMCLELL 1/25/06  
APPROVED BY DATE  
BANAKIS 1/25/06  
MATERIAL NO.  
SEE CHART  
SIZE  
A2  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE  
4:1  
DESIGN UNITS  
METRIC  
THIRD ANGLE PROJECTION  
MX150 RIGHT ANGLE  
DUAL ROW UNSHROUDED  
HEADER ASSEMBLY  
molex  
DOCUMENT NO.  
SD-75900-001  
SHEET NO.  
1 OF 1