# Excellent Integrated System Limited

Stocking Distributor

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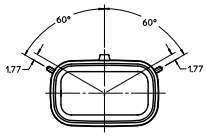
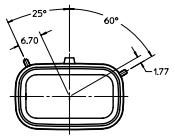
Molex Connector Corporation
0757571362

For any questions, you can email us directly:
sales@integrated-circuit.com

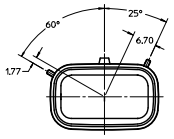
# CUSTOMER SHROUD DESIGN DETAILS



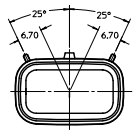

KEYING OPTION "A"
SUGGESTED COLOR: BLACK



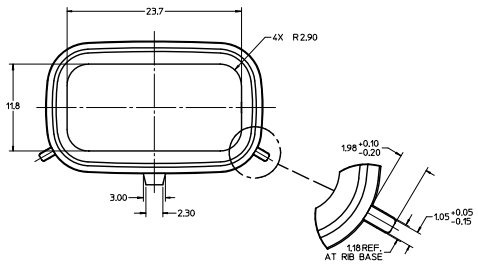

KEYING OPTION "B"
SUGGESTED COLOR: GREY

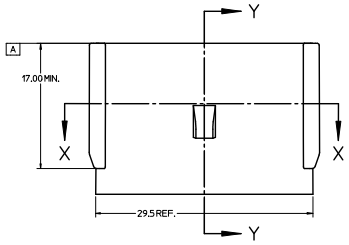


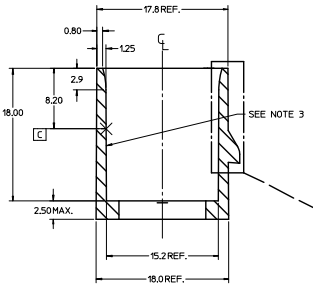

KEYING OPTION "C"
SUGGESTED COLOR: BROWN



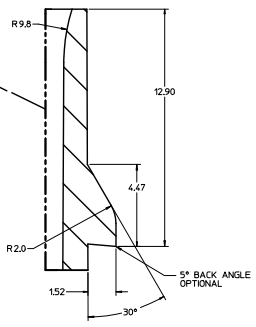

KEYING OPTION "D"
SUGGESTED COLOR: GREEN

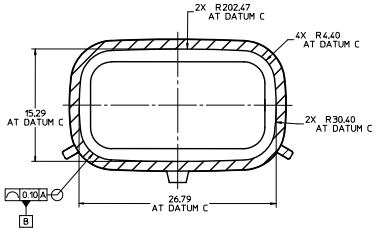



SECTION Y-Y
SCALE 4:1




SECTION X-X
SCALE 4:1

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.

ADDED PLUG ASSY
EC NO: UCP2011-2660 2011/03/04
DRWN: DROSCA 2011/03/07
CHKD:
APPR: JCOMERCI
REV D

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.10 | ± --- |
| 1 PLACE | ± 0.2 | ± --- |
| ANGULAR | ± 1/2° | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

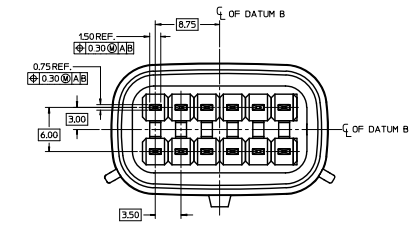
| | | DATE |
|---|---|---|
| DRAWN BY | TMCCLELL | 03/29/06 |
| CHECKED BY | TMCCLELL | 03/29/06 |
| APPROVED BY | BANAKIS | 03/30/06 |

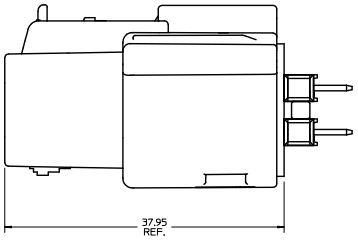
TITLE: APPLICATION SPEC 2X6 MX150 HEADER SHROUD DETAILS
MOLEX INCORPORATED
MATERIAL NO. 75757-2060
DOCUMENT NO. AS-75757-206
SHEET NO. 1 OF 2
SIZE D

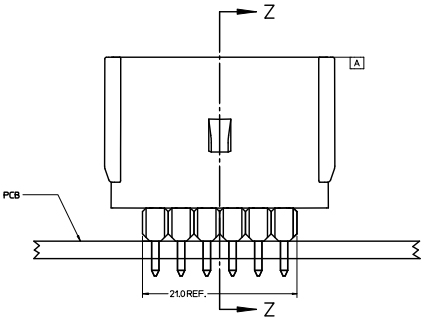


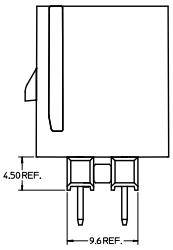
tb_frame_D_P_AM_T
Rev. D 2004/06/28

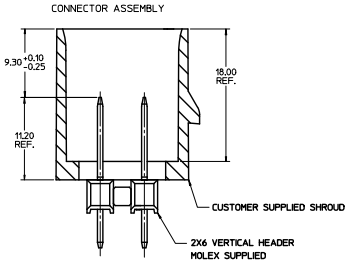
NOTES:
1. ADHERENCE TO THE HEADER APPLICATION DETAILS IS IMPERATIVE TO ENSURE PROPER SHROUD SEALING AND CONTACT ALIGNMENT WHEN MATED WITH A MX150 FEMALE CONNECTOR.



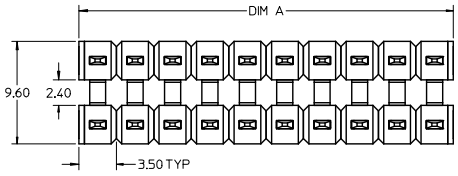




SECTION Z-Z

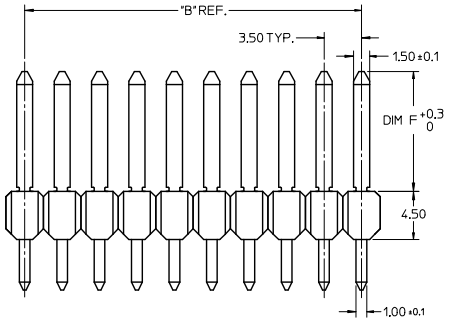
HEADER APPLICATION DETAILS

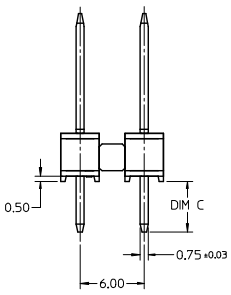
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEE SHEET 1 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| EC NO: UCP2011-2660 2011/03/04 | ▼=0 | | MM ONLY | 4:1 | METRIC | | |
| DRWN: DROSCA 2011/03/07 | ▽=0 | mm / INCH | DRAWN BY / DATE | TITLE | | | |
| CHKD: | | 4 PLACES ± --- / ± --- | TMCCLELL 03/29/06 | APPLICATION SPEC 2X6 MX150 HEADER SHROUD DETAILS | | | |
| APPR: JCOMERCI | | 3 PLACES ± --- / ± --- | CHECKED BY / DATE | | | | |
| DESCRIPTION | | 2 PLACES ± 0,10 / ± --- | TMCCLELL 03/29/06 | | | | |
| | | 1 PLACE ± 0,2 / ± --- | APPROVED BY / DATE | molex MOLEX INCORPORATED | | | |
| | | ANGULAR ± 1/2° | BANAKIS 03/30/06 | | | | |
| REV | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. | DOCUMENT NO. | | SHEET NO. | |
| D | | | 75757-2060 | AS-75757-206 | | 2 OF 2 | |
| | | | SIZE D | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |

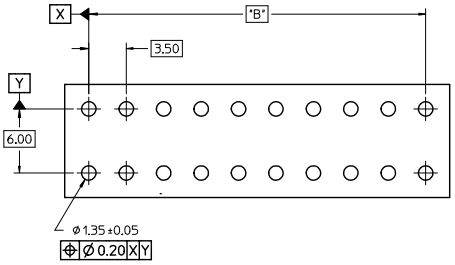
tb_frame_D_P_AM_T Rev. D 2004/06/28




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-36518-340.




RECOMMENDED PCB LAYOUT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PK SPEC UPDATED | 2016/05/16 | 2016/06/03 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS |
| EC NO: 120116-0115 | | | | mm / INCH | MM ONLY | 4:1 | METRIC |
| DRWN: BR02 | | | =0 | 4 PLACES ± --- / ± --- | DRAWN BY / DATE | TITLE | THIRD ANGLE PROJECTION |
| CHKD: | | | =0 | 3 PLACES ± --- / ± --- | TMCCLELL 1/18/05 | MX150 DUAL ROW UNSHROUDED VERTICAL HEADER ASSEMBLY | |
| APPR: KPRASAD | | | =0 | 2 PLACES ± 0.13 / ± --- | CHECKED BY / DATE | | |
| DESCRIPTION | | | | 1 PLACE ± 0.25 / ± --- | TMCCLELL 1/18/05 | | |
| REV | | | | 0 PLACE ± / ± | APPROVED BY / DATE | molex | |
| | | | | ANGULAR ±1/2° | BANAKIS 1/18/05 | | |
| | | | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-75757-002 | SHEET NO. 1 OF 2 |
| | | | | | SIZE A2 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | |

| CKT SIZE | PLATING OPTION | MATERIAL NUMBER | "C" DIM | "F" DIM | MATERIAL NUMBER | "C" DIM | "F" DIM | MATERIAL NUMBER | "C" DIM | "F" DIM | MATERIAL NUMBER | "C" DIM | "F" DIM | "A" DIM | "B" DIM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 x 2 | 1 | 75757-6121 | 3.05 | 27.77 | 75757-5121 | 3.05 | 16.09 | 75757-1121 | 3.05 | 11.20 | 75757-1122 | 4.75 | 11.20 | 7.0 | 3.50 REF |
| | 2 | 75757-6221 | | | 75757-5221 | | | 75757-1221 | | | 75757-1222 | | | | |
| | 3 | 75757-6321 | | | 75757-5321 | | | 75757-1321 | | | 75757-1322 | | | | |
| | 4 | 75757-6421 | | | 75757-5421 | | | 75757-1421 | | | 75757-1422 | | | | |
| 2 x 3 | 1 | 75757-6131 | | | 75757-5131 | | | 75757-1131 | | | 75757-1132 | | | 10.5 | 7.00 |
| | 2 | 75757-6231 | | | 75757-5231 | | | 75757-1231 | | | 75757-1232 | | | | |
| | 3 | 75757-6331 | | | 75757-5331 | | | 75757-1331 | | | 75757-1332 | | | | |
| | 4 | 75757-6431 | | | 75757-5431 | | | 75757-1431 | | | 75757-1432 | | | | |
| 2 x 4 | 1 | 75757-6141 | | | 75757-5141 | | | 75757-1141 | | | 75757-1142 | | | 14.0 | 10.50 |
| | 2 | 75757-6241 | | | 75757-5241 | | | 75757-1241 | | | 75757-1242 | | | | |
| | 3 | 75757-6341 | | | 75757-5341 | | | 75757-1341 | | | 75757-1342 | | | | |
| | 4 | 75757-6441 | | | 75757-5441 | | | 75757-1441 | | | 75757-1442 | | | | |
| 2 x 6 | 1 | 75757-6161 | | | 75757-5161 | | | 75757-1161 | | | 75757-1162 | | | 21.0 | 17.50 |
| | 2 | 75757-6261 | | | 75757-5261 | | | 75757-1261 | | | 75757-1262 | | | | |
| | 3 | 75757-6361 | | | 75757-5361 | | | 75757-1361 | | | 75757-1362 | | | | |
| | 4 | 75757-6461 | | | 75757-5461 | | | 75757-1461 | | | 75757-1462 | | | | |
| 2 x 8 | 1 | 75757-6181 | | | 75757-5181 | | | 75757-1181 | | | 75757-1182 | | | 28.0 | 24.50 |
| | 2 | 75757-6281 | | | 75757-5281 | | | 75757-1281 | | | 75757-1282 | | | | |
| | 3 | 75757-6381 | | | 75757-5381 | | | 75757-1381 | | | 75757-1382 | | | | |
| | 4 | 75757-6481 | | | 75757-5481 | | | 75757-1481 | | | 75757-1482 | | | | |
| 2 x 10 | 1 | 75757-6101 | | | 75757-5101 | | | 75757-1101 | | | 75757-1102 | | | 35.0 | 31.50 |
| | 2 | 75757-6201 | | | 75757-5201 | | | 75757-1201 | | | 75757-1202 | | | | |
| | 3 | 75757-6301 | | | 75757-5301 | | | 75757-1301 | | | 75757-1302 | | | | |
| | 4 | 75757-6401 | | | 75757-5401 | | | 75757-1401 | | | 75757-1402 | | | | |

SEE SHEET 1
EC NO: I2016-0115
DRWN:BR02
CHKD:
APPR:KPRASAD

| REV | DESCRIPTION | |
|---|---|---|
| T | | 2016/06/03 |
| | | 2016/05/16 |

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

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | NAME | DATE |
|---|---|---|
| DRAWN BY | TMCCLELL | 1/18/05 |
| CHECKED BY | TMCCLELL | 1/18/05 |
| APPROVED BY | BANAKIS | 1/18/05 |

TITLE: MX150 DUAL ROW UNSHROUDED VERTICAL HEADER ASSEMBLY

molex

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75757-002
SHEET NO.: 2 OF 2
SIZE: A2