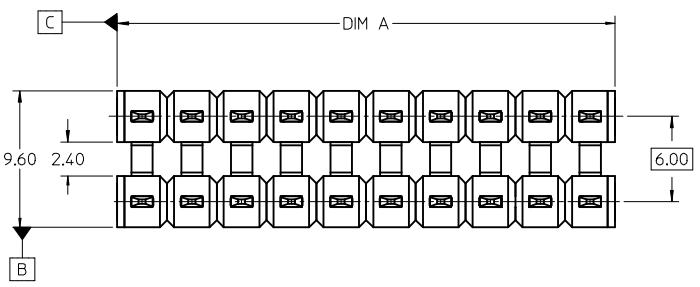
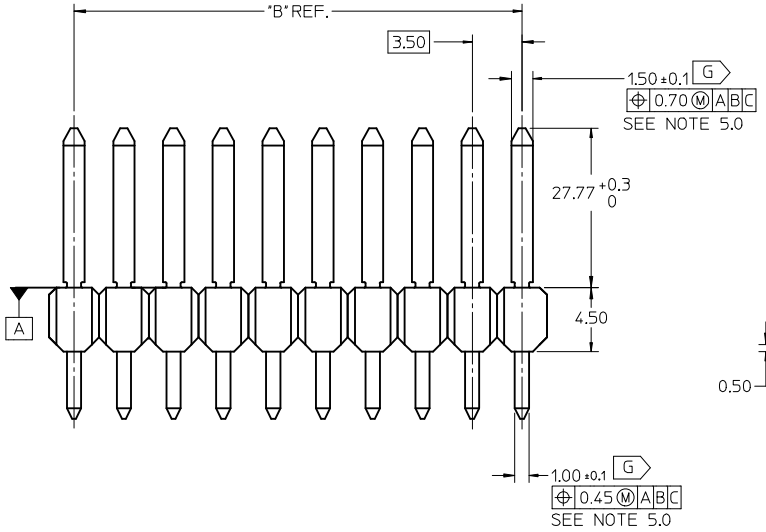
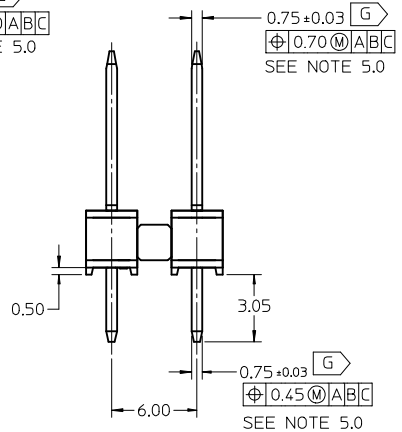
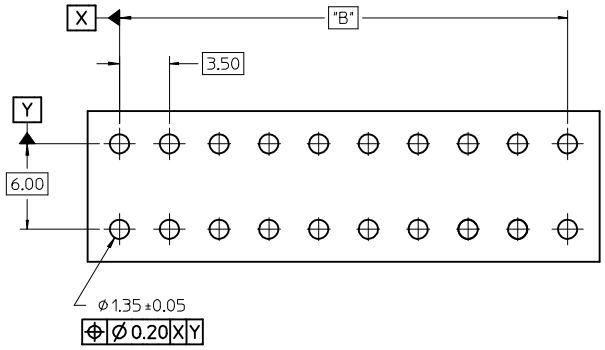



RECOMMENDED PCB LAYOUT

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-36518-340.
5. ALL THE POSITIONAL TOLERANCES SHOULD BE MEASURED AT TIP OF THE TERMINALS.
6. DATUMS SHOULD BE CONSIDERED FROM THE EDGES OF THE HOUSING.
7. POSITION TOLERANCE OF PIN AT MATING SIDE SHOULD BE MAINTAINED AT 0.3 MM IN THE FINAL MODULE BY CUSTOMER
8. G DENOTES DIMENSIONS THAT CAN BE QUALIFIED WITH A GAUGE
9. **BLADE GEOMETRY DOES NOT CONFORM TO USCAR SPECIFICATIONS**

| REV | DESCRIPTION | DRWN | CHKD | APPR | DATE |
|---|---|---|---|---|---|
| 4 | ADDED NOTE 8 & 9. EC NO: 12017-0047 | RGV | | VUTTARKAR | 2017/04/20 |

QUALITY SYMBOLS: E=0, E=0, E=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: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: RGV DATE: 2016/11/29
CHECKED BY: DATE:
APPROVED BY: VUTTARKAR DATE: 2017/01/02

TITLE: MX150 DUAL ROW UNSHROUDED VERTICAL HEADER ASSEMBLY

molex

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75757-003
SHEET NO.: 1 OF 2
SIZE: A2

| CKT SIZE | PLATING OPTION | MATERIAL NUMBER | "A" DIM | "B" DIM |
|---|---|---|---|---|
| 2 x 2 | 1 | 75757-6121 | 7.0 | 3.50 REF |
| | 2 | 75757-6221 | | |
| | 3 | 75757-6321 | | |
| | 4 | 75757-6421 | | |
| 2 x 3 | 1 | 75757-6131 | 10.5 | 7.00 |
| | 2 | 75757-6231 | | |
| | 3 | 75757-6331 | | |
| | 4 | 75757-6431 | | |
| 2 x 4 | 1 | 75757-6141 | 14.0 | 10.50 |
| | 2 | 75757-6241 | | |
| | 3 | 75757-6341 | | |
| | 4 | 75757-6441 | | |
| 2 x 6 | 1 | 75757-6161 | 21.0 | 17.50 |
| | 2 | 75757-6261 | | |
| | 3 | 75757-6361 | | |
| | 4 | 75757-6461 | | |
| 2 x 8 | 1 | 75757-6181 | 28.0 | 24.50 |
| | 2 | 75757-6281 | | |
| | 3 | 75757-6381 | | |
| | 4 | 75757-6481 | | |
| 2 x 10 | 1 | 75757-6101 | 35.0 | 31.50 |
| | 2 | 75757-6201 | | |
| | 3 | 75757-6301 | | |
| | 4 | 75757-6401 | | |

SEE SHEET 1
EC NO: I2017-0047 2017/04/20
DRWN:RGV
CH'KD:
APPR:VUTTARKAR 2017/04/24
DESCRIPTION
REV
4

QUALITY SYMBOLS
E=0
E=0
E=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| 0 PLACE | ± | ± |

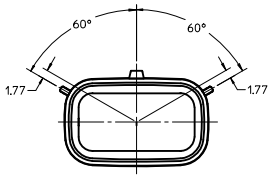
ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
DRAWN BY: RGV DATE: 2016/11/29
CHECKED BY: DATE:
APPROVED BY: VUTTARKAR DATE: 2017/01/02
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75757-003
SHEET NO.: 2 OF 2
SIZE: A2

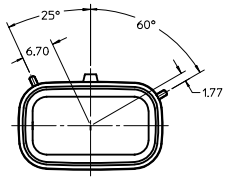
TITLE: MX150 DUAL ROW UNSHROUDED VERTICAL HEADER ASSEMBLY

molex

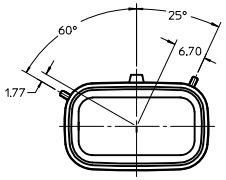
# CUSTOMER SHROUD DESIGN DETAILS



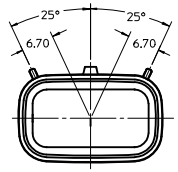

KEYING OPTION "A"
SUGGESTED COLOR: BLACK



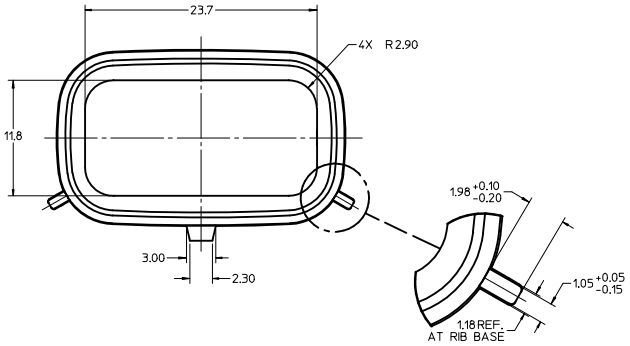

KEYING OPTION "B"
SUGGESTED COLOR: GREY

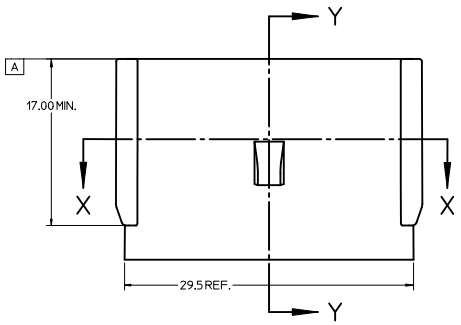


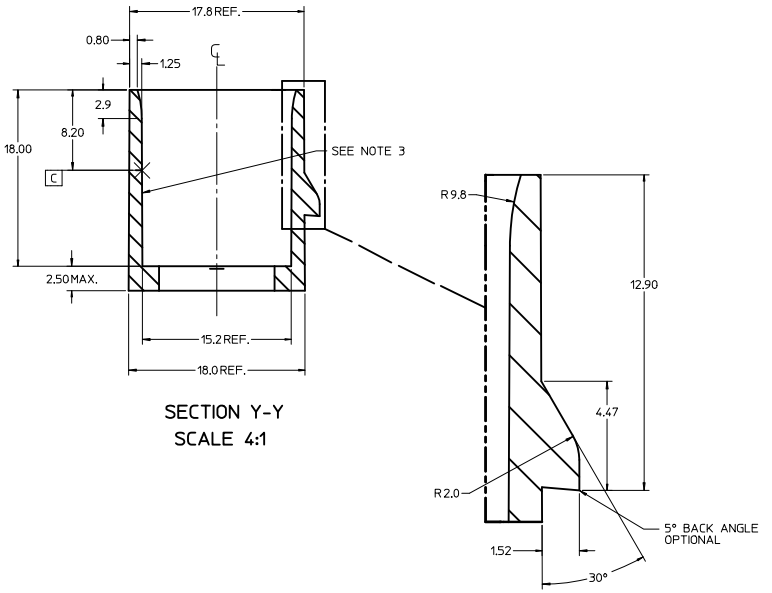

KEYING OPTION "C"
SUGGESTED COLOR: BROWN



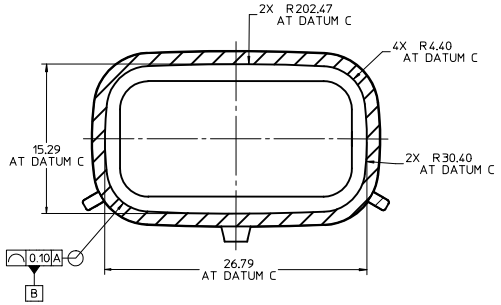

KEYING OPTION "D"
SUGGESTED COLOR: GREEN




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 2011/03/04
EC NO: UCP2011-2680 2011/03/07
DRWN: DROSCA
CHKD:
APPR: COMERCI
DESCRIPTION
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

| | |
|---|---|
| DRAWN BY | TMCCLELL |
| DATE | 03/29/06 |
| CHECKED BY | TMCCLELL |
| DATE | 03/29/06 |
| APPROVED BY | BANAKIS |
| DATE | 03/30/06 |
| MATERIAL NO. | 75757-2060 |

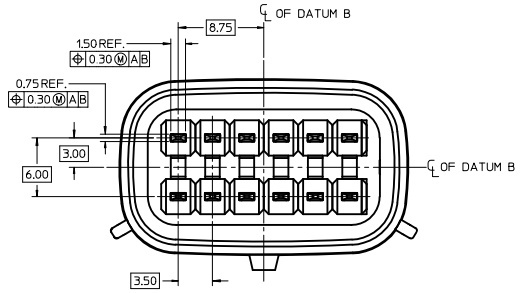
TITLE: APPLICATION SPEC 2X6 MX150 HEADER SHROUD DETAILS

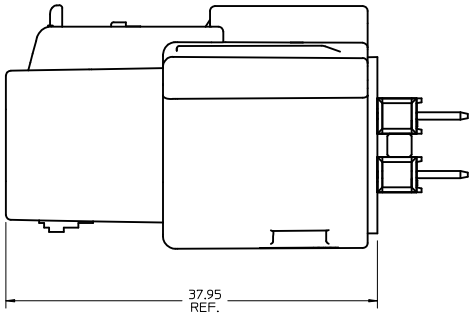
MOLEX INCORPORATED

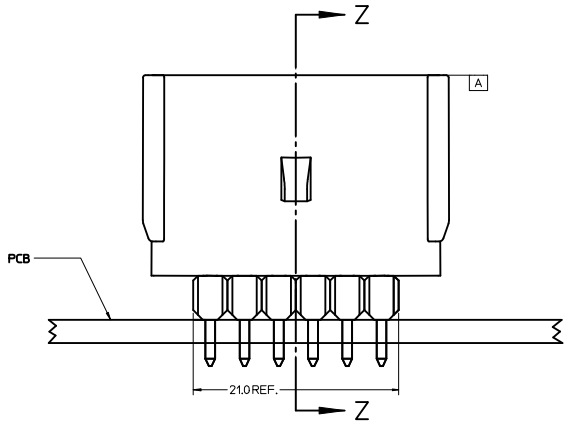
DOCUMENT NO. AS-75757-206
SHEET NO. 1 OF 2

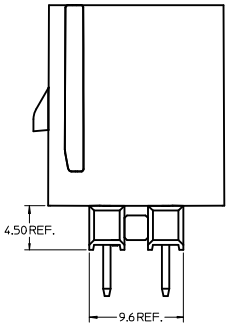
SIZE D

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.

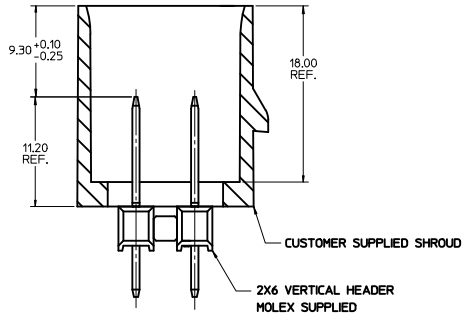



CONNECTOR ASSEMBLY




SECTION Z-Z

# HEADER APPLICATION DETAILS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SEE SHEET 1 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| EC NO: UCP2011-2680 2011/03/04 | | mm | INCH | MM ONLY | 4:1 | METRIC | |
| DRWN: DROSCA 2011/03/07 | ▼=0 | 4 PLACES ± --- | ± --- | DRAWN BY TMCCLELL | DATE 03/29/06 | TITLE: APPLICATION SPEC 2X6 MX150 HEADER SHROUD DETAILS | |
| CHKD: | ▽=0 | 3 PLACES ± --- | ± --- | CHECKED BY TMCCLELL | DATE 03/29/06 | | |
| APPR: JCOMERCI | | 2 PLACES ± 0.10 | ± --- | APPROVED BY BANAKIS | DATE 03/30/06 | molex MOLEX INCORPORATED | |
| DESCRIPTION | | 1 PLACE ± 0.2 | ± --- | MATERIAL NO. 75757-2060 | | DOCUMENT NO. AS-75757-206 | SHEET NO. 2 OF 2 |
| REV D | | ANGULAR ±1/2° | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SIZE D | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |