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Part Number: [0757571402](#)
Status: **Active**
Overview: [mx150 unshrouded breakaway header](#)
Description: 3.50mm (.138") Pitch, MX150™ Header, Breakaway, Vertical, 20 Circuits, 1.5µm (60µ") Tin (Sn) Plating, 11.20mm (.441") Mating Pin Length, 4.75mm (.187") PC Tail Length

Documents:

[3D Model](#) [Product Specification PS-75757-000 \(PDF\)](#)
[Application Specification \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

General

| | |
|----------------|---|
| Product Family | PCB Headers |
| Series | 75757 |
| Application | Wire-to-Board |
| Comments | 3.5 x 6.0mm (.138 x .236") dual row grid |
| Overview | mx150 unshrouded breakaway header |
| Product Name | MX150™ |

Physical

| | |
|--------------------------------|--------------------------------|
| Breakaway | Yes |
| Circuits (Loaded) | 20 |
| Circuits (maximum) | 20 |
| Circuits Detail | 20 |
| Color - Resin | Black |
| Durability (mating cycles max) | 25 |
| First Mate / Last Break | No |
| Glow-Wire Compliant | No |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| Lock to Mating Part | None |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Number of Rows | 2 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.187 In |
| PC Tail Length (mm) | 4.75 mm |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.093 In |
| PCB Thickness Recommended (mm) | 3.20 mm |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.138 In |
| Pitch - Mating Interface (mm) | 3.50 mm |
| Pitch - Term. Interface (in) | 0.138 In |
| Pitch - Term. Interface (mm) | 3.50 mm |
| Plating min: Mating (µin) | 60 |
| Plating min: Mating (µm) | 1.5 |
| Plating min: Termination (µin) | 60 |
| Plating min: Termination (µm) | 1.5 |
| Polarized to Mating Part | No |
| Polarized to PCB | No |
| Shrouded | No |
| Stackable | No |

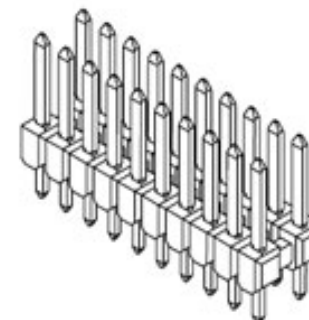


image - Reference only

Series

EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[75757Series](#)

Mates With

[33471](#) Single Row MX150™ Receptacles,
[33472](#) Dual Row MX150™ Receptacles

| | |
|--------------------------------|-----------------|
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -40°C to +125°C |
| Termination Interface: Style | Through Hole |

Electrical

| | |
|-------------------------------|---------|
| Current - Maximum per Contact | 16A |
| Voltage - Maximum | 500V DC |

Solder Process Data

| | |
|------------------------------|------------------------------|
| Lead-free Process Capability | SMC & Wave Capable (TH only) |
| Process Temperature max. C | 235 |

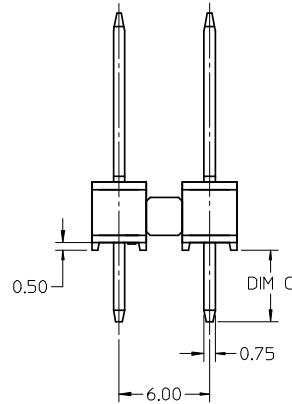
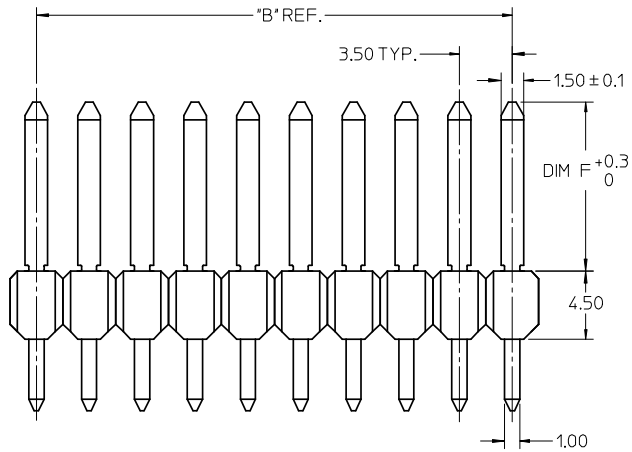
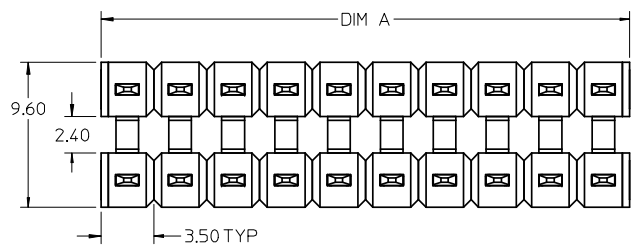
Material Info

Reference - Drawing Numbers

| | |
|---------------------------|--------------|
| Application Specification | AS-75757-210 |
| Packaging Specification | PK-75757-006 |
| Product Specification | PS-75757-000 |
| Sales Drawing | SD-75757-002 |
| Test Summary | TS-75757-001 |

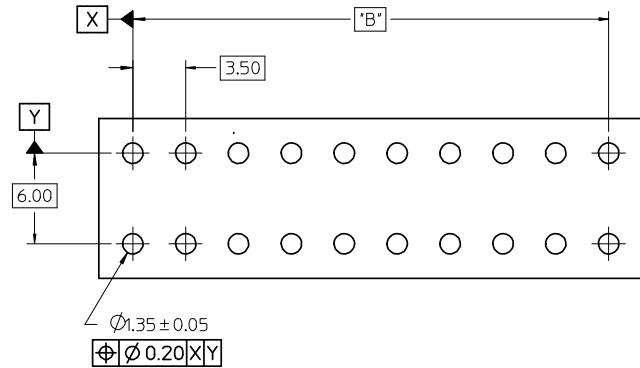
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NOTES:





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 EC NO: UCP2009-0126 DRWN: PROSCA 2008/07/16 CHKD: JCOMERCI 2008/07/16 APPR: JCOMERCI 2008/07/16 | 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 ± --- ± --- | mm | INCH | DRAWN BY TMCCLELL | DATE 1/18/05 | MX150 DUAL ROW BREAK-AWAY VERTICAL HEADER ASSEMBLY MOLEX INCORPORATED | |
| | | 2 PLACES ± 0.13 ± --- | 1 PLACE ± 0.25 ± --- | ANGULAR ± 1/2° | | CHECKED BY TMCCLELL | DATE 1/18/05 | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | APPROVED BY BANAKIS | DATE 1/18/05 | | | | |
| REV: B | DESCRIPTION | MATERIAL NO. SEE CHART | | DOCUMENT NO. SD-75757-002 | | SHEET NO. 1 OF 2 | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|------------------|--|------|-------|--|------|-------|--|------|-------|--|------|-------------|---|------|-------|---------|---------|------|-------|-----------------|---------|---------|-----------------|---------|---------|
| | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | | | | |
| J | 2 x 2 | 1 2 3 4 | 75757-6121 75757-6221 75757-6321 75757-6421 | 3.05 | 27.77 | 75757-5121 75757-5221 75757-5321 75757-5421 | 3.05 | 16.09 | 75757-1121 75757-1221 75757-1321 75757-1421 | 3.05 | 11.20 | 75757-1122 75757-1222 75757-1322 75757-1422 | 7.0 | 3.50 REF | J | | | | | | | | | | | | |
| I | 2 x 3 | 1 2 3 4 | 75757-6131 75757-6231 75757-6331 75757-6431 | | | 75757-5131 75757-5231 75757-5331 75757-5431 | | | 75757-1131 75757-1231 75757-1331 75757-1431 | | | 75757-1132 75757-1232 75757-1332 75757-1432 | | | | 10.5 | 7.00 | | | | | | | | | | |
| I | 2 x 4 | 1 2 3 4 | 75757-6141 75757-6241 75757-6341 75757-6441 | | | 75757-5141 75757-5241 75757-5341 75757-5441 | | | 75757-1141 75757-1241 75757-1341 75757-1441 | | | 75757-1142 75757-1242 75757-1342 75757-1442 | | | | | | 14.0 | 10.50 | | | | | | | | |
| H | 2 x 6 | 1 2 3 4 | 75757-6161 75757-6261 75757-6361 75757-6461 | | | 75757-5161 75757-5261 75757-5361 75757-5461 | | | 75757-1161 75757-1261 75757-1361 75757-1461 | | | 75757-1162 75757-1262 75757-1362 75757-1462 | | | | | | | | 21.0 | 17.50 | | | | | | |
| G | 2 x 8 | 1 2 3 4 | 75757-6181 75757-6281 75757-6381 75757-6481 | | | 75757-5181 75757-5281 75757-5381 75757-5481 | | | 75757-1181 75757-1281 75757-1381 75757-1481 | | | 75757-1182 75757-1282 75757-1382 75757-1482 | 28.0 | 24.50 | | | | | | | | | | | | | |
| G | 2 x 10 | 1 2 3 4 | 75757-6101 75757-6201 75757-6301 75757-6401 | | | 75757-5101 75757-5201 75757-5301 75757-5401 | | | 75757-1101 75757-1201 75757-1301 75757-1401 | | | 75757-1102 75757-1202 75757-1302 75757-1402 | | | | 35.0 | 31.50 | | | | | | | | | | |
| F | 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 | B | C | D | E | F | G | H | I | J | ENTER DESCRIPTION EC NO: UCP2009-0126 DRAWN: DRWINDROSCA 2008/07/16 CHKD: 2008/07/16 APPR: JCOMERCI 2008/07/16 | QUALITY SYMBOLS  = 0  = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± ---</td> </tr> </table> | | mm | INCH | 4 PLACES | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.13 | ± --- | 1 PLACE | ± 0.25 | ± --- | DIMENSION STYLE MM ONLY | SCALE 1:1 | DESIGN UNITS METRIC |  THIRD ANGLE PROJECTION | DRAWN BY TMCCLELL DATE 1/18/05 | CHECKED BY TMCCLELL DATE 1/18/05 | APPROVED BY BANAK IS DATE 1/18/05 |  MOLEX INCORPORATED | MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-75757-002 | SHEET NO. 2 OF 2 |
| | | | | | | | | | | | | | | mm | INCH | | | | | | | | | | | | | | | | | | | | | | | |
| 4 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 PLACES | ± 0.13 | ± --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | ± 0.25 | ± --- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |