This document was generated on 05/31/2010

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** 0757571442
**Status:** Active
**Overview:** mx150_unshrouded_breakaway_header
**Description:** 3.50mm (.138") Pitch, MX150™ Header, Breakaway, Vertical, 8 Circuits, 1.5µm (60µ") Tin (Sn) Plating, 11.20mm (.441") Mating Pin Length, 4.75mm (.187") PC Tail Length



*Series image - Reference only*

**Documents:**

3D Model
Application Specification (PDF)
Drawing (PDF)
Product Specification PS-75757-000 (PDF)
RoHS Certificate of Compliance (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) | 8 |
| Circuits (maximum) | 8 |
| Circuits Detail | 8 |
| 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) | 0.190 In |
| PC Tail Length (mm) | 4.75 mm |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.093 In, 0.125 In |
| PCB Thickness Recommended (mm) | 2.40 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 | Yes |

**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

| | |
|---|---|
| Duration at Max. Process Temperature (seconds) | 15 |
| Lead-free Process Capability | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 260 |

## Material Info

## Reference - Drawing Numbers

| | |
|---|---|
| Application Specification | AS-75757-204 |
| Packaging Specification | PK-75757-006 |
| Product Specification | PS-75757-000 |
| Sales Drawing | SD-75757-002 |
| Test Summary | TS-75757-001 |

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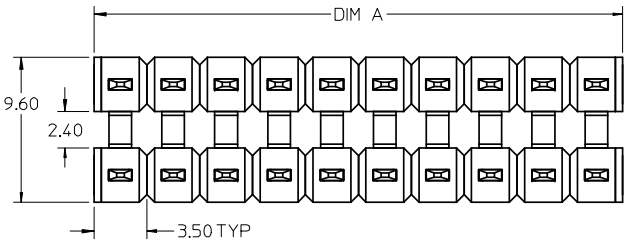
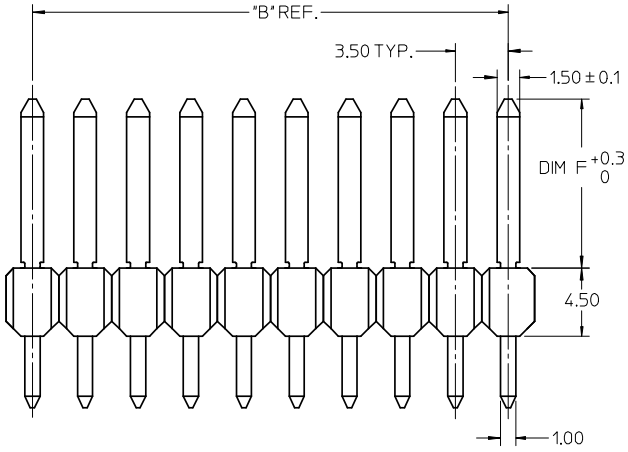
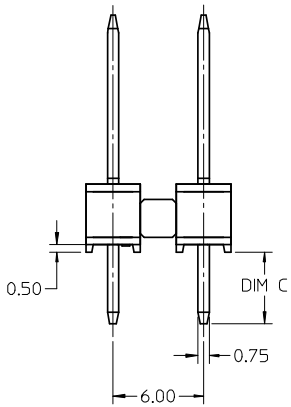
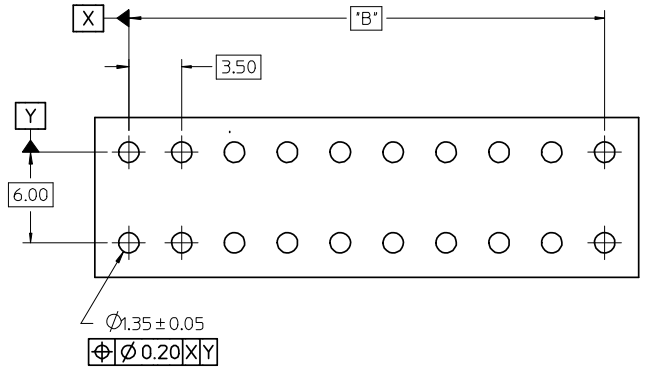



NOTES:
1. TERMINAL MAT'L: ALLOY C26000, CARTRIDGE BRASS
2. WAFER MAT'L: 30% GLASS FILLED LCP, 94V-0, COLOR BLACK.
3. TERMINAL PLATING:
   OPTION 4 - 1.5μm MIN MATTE TIN OVERALL OVER 1.25μm NICKEL OVERALL
   OPTION 1 - 2.5μm MIN MATTE TIN OVERALL OVER 1.25μm NICKEL OVERALL
   OPTION 2 - 1.25μm NICKEL 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 2008/07/16
DRWN: DROSCA 2008/07/16
CH'KD:
APPR: JCOMERCI 2008/07/16
DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| 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 | TMCCLELL | DATE 1/18/05 |
| CHECKED BY | TMCCLELL | DATE 1/18/05 |
| APPROVED BY | BANAKIS | DATE 1/18/05 |

TITLE: MX150 DUAL ROW BREAK-AWAY VERTICAL HEADER ASSEMBLY

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75757-002
SHEET NO.: 1 OF 2
SIZE: C

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 | | | | |

ENTER DESCRIPTION
EC NO: UCP2009-0126 2008/07/16
DRWN: DROSCA 2008/07/16
CH'KD:
APPR: JCOMERCI 2008/07/16
DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
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| 1 PLACE | ± 0.25 | ± --- |
| 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: TMCCLELL DATE: 1/18/05
CHECKED BY: TMCCLELL DATE: 1/18/05
APPROVED BY: BANAKIS DATE: 1/18/05

TITLE: MX150 DUAL ROW BREAK-AWAY VERTICAL HEADER ASSEMBLY

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-75757-002
SHEET NO.: 2 OF 2

SIZE C

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