

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

**Part Number:** [075757201](#)  
**Status:** **Active**  
**Overview:** mx150 unshrouded breakaway header  
**Description:** 3.50mm (.138") Pitch, MX150™ Header, Breakaway, Vertical, 20 Circuits, 1.25µm (50µ") Nickel (Ni) Overall, 2.50µm (100µ") Minimum Select Matte Tin (Sn) Plating on Tail, 0.05µm Minimum Select Gold (Au) Contact Area, 16.09mm (.633") Mating Pin Length, 3.05m (.120") PC Tail Length

**Documents:**

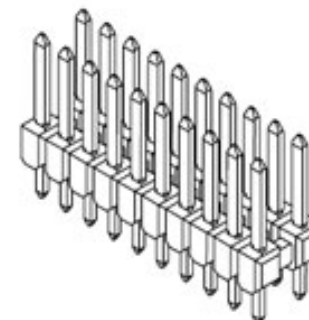
<a href="#">3D Model</a>	<a href="#">Product Specification PS-75757-000 (PDF)</a>
<a href="#">Application Specification (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Drawing (PDF)</a>	

**General**

Product Family	PCB Headers
Series	<a href="#">75757</a>
Application	Wire-to-Board
Overview	<a href="#">mx150 unshrouded breakaway header</a>
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	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 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)	2
Plating min: Mating (µm)	0.05
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No



*image - Reference only*

*Series*

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Not Reviewed**  
**Halogen-Free  
Status  
Not Reviewed**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto: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

Stackable	Yes
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

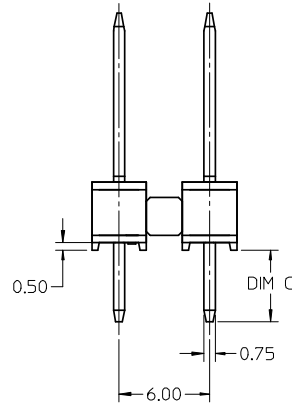
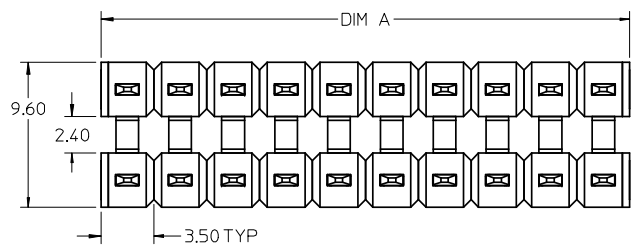
### **Material Info**

### **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

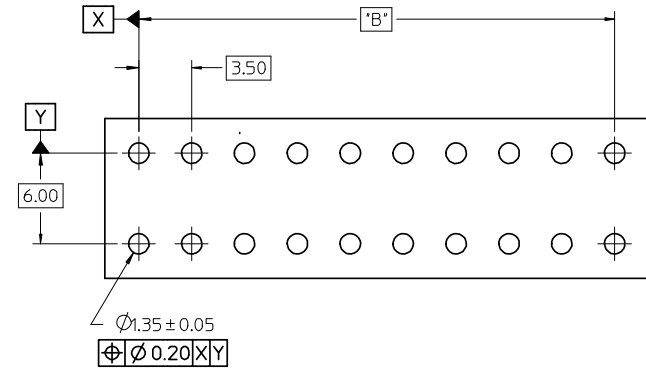
This document was generated on 05/31/2010

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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 <b>MM ONLY</b>		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± --- ± ---	DRAWN BY TMCCLELL	DATE 1/18/05	MX150 DUAL ROW BREAK-AWAY VERTICAL HEADER ASSEMBLY <b>MOLEX INCORPORATED</b>					
		3 PLACES ± --- ± ---	CHECKED BY TMCCLELL	DATE 1/18/05						
		2 PLACES ± 0.13 ± ---	APPROVED BY BANAKIS	DATE 1/18/05						
1 PLACE ± 0.25 ± ---	ANGULAR ± 1/2°		MATERIAL NO. <b>SEE CHART</b>	DOCUMENT NO. SD-75757-002	SHEET NO. 1 OF 2					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C		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	75757-6121			75757-5121			75757-1121				75757-1122			7.0			3.50						
		2	75757-6221			75757-5221			75757-1221				75757-1222						REF						
		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												
		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												
I	2 x 4	1	75757-6141			75757-5141			75757-1141				75757-1142												
		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	3.05	27.77	75757-5161	3.05	16.09	75757-1161	3.05	11.20		75757-1162	4.75	11.20										
		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												
H	2 x 8	1	75757-6181			75757-5181			75757-1181				75757-1182												
		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												
G	2 x 10	1	75757-6101			75757-5101			75757-1101				75757-1102												
		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												
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* DIM	*B* DIM									



ENTER DESCRIPTION EC NO: UCP2009-0126 DRW: DRWDRSCA 2008/07/16 CHKD: 2008/07/16 APPR: JCOMERCI 2008/07/16 REV:	QUALITY SYMBOLS	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> <tr> <td colspan="3" style="text-align: center;">ANGULAR ± 1/2°</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.13	± ---	1 PLACE	± 0.25	± ---	ANGULAR ± 1/2°			DIMENSION STYLE <b>MM ONLY</b> DRAWN BY DATE TMCCLELL 1/18/05 CHECKED BY DATE TMCCLELL 1/18/05 APPROVED BY DATE BANAK IS 1/18/05 MATERIAL NO. <b>SEE TABLE</b> SIZE C	SCALE <b>1:1</b> DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE <b>MX150 DUAL ROW          BREAK-AWAY VERTICAL          HEADER ASSEMBLY</b> MOLEX INCORPORATED DOCUMENT NO. <b>SD-75757-002</b> SHEET NO. <b>2 OF 2</b>
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