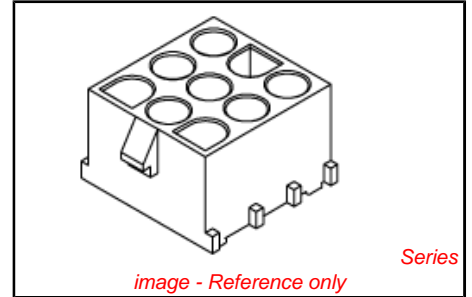


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0010844020](#)
Status: **Active**
Overview: [mlx](#)
Description: 6.35mm (.250) Pitch MLX™ Power Connector Header, Vertical, 2 Circuits, PA Polyamide Nylon 6/6 94V-2, Tin (Sn) Plating, White

Documents:

3D Model	Product Specification PSX-42002-0001 (PDF)
Drawing (PDF)	Product Specification PSX-42002-0002 (PDF)
Product Specification PS-42022-0001 (PDF)	RoHS Certificate of Compliance (PDF)



Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	42002
Application	Wire-to-Board
Comments	Solder Type
Overview	mlx
Product Name	MLX™

Physical

Breakaway	No
Circuits (Loaded)	2
Circuits (maximum)	2
Color - Resin	Natural
Durability (mating cycles max)	50
First Mate / Last Break	No
Flammability	94V-2
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.168 In
PC Tail Length (mm)	4.27 mm
PCB Retention	Yes
PCB Thickness Recommended (in)	0.125 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.250 In
Pitch - Mating Interface (mm)	6.35 mm
Polarized to PCB	Yes
Shrouded	Fully
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13.5A
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<p>EU RoHS ELV and RoHS Compliant REACH SVHC Not Reviewed Halogen-Free Status Halogen-Free</p>	<p>China RoHS</p>
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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
[42002Series](#)

Mates With
[42021 Plug](#)

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)
Process Temperature max. C	260

Material Info

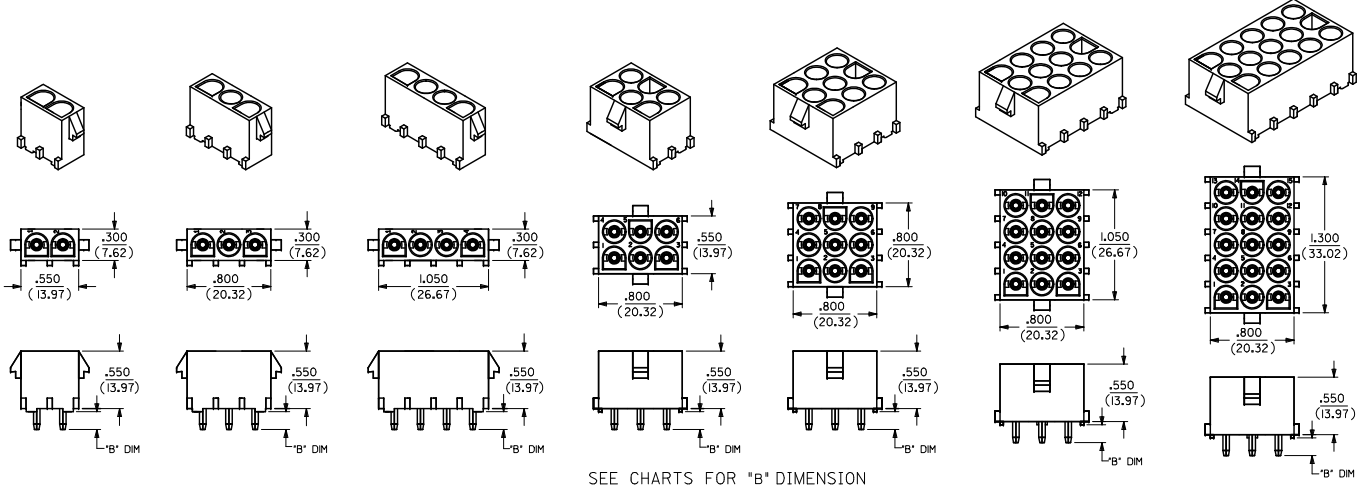
Old Part Number	A-42002-2A1A1
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Reference - Drawing Numbers

Packaging Specification	PK-43255-001
Product Specification	PS-42022-0001, PSX-42002-0001, PSX-42002-0002
Sales Drawing	SDA-42002-*****

This document was generated on 05/24/2010

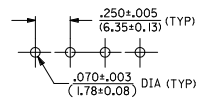
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



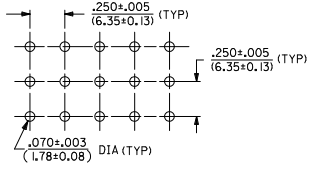
SEE CHARTS FOR "B" DIMENSION

P.C. BOARD MOUNTING DIMENSIONS

2, 3, & 4 POSITION HEADER ASSEMBLIES



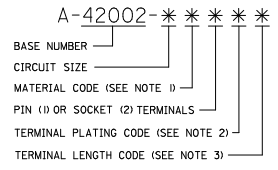
6, 9, 12 & 15 POSITION HEADER ASSEMBLIES



NOTES:

- 1) MATERIAL CODES:
 - *A*= NYLON 6/6, 94V-2, NATURAL
 - *C*= PLOYESTER, 94V-0, WHITE/NATURAL
 - *D*= NYLON V-2
 - COLOUR:BLACK(ZYTEL 101F)
 - *E*= NYLON V-2
 - COLOUR:NATURAL
 - GLOWWIRE COMPATIBLE WITH CTI OF 325V
- 2) PLATING CODES:
 - A = ES-88-P921
- 3) TERMINAL LENGTH CODES:
 - I= TERMINAL FOR .062/(1.57) THICK PC BOARD
- 4) DIMENSIONS ARE FOR REFERENCE ONLY UNLESS INDICATED OTHERWISE.
- 5) HEADER ASSEMBLY HOUSINGS MATE WITH : PLUG HOUSINGS, .084/(2.13) DIA. SERIES: (42021-***)
- 6) CONTACTS ARE ON .250/(6.35) GRID CENTERLINE SPACING.

LEGEND:



ENTER DESCRIPTION IEC NO: 12010-0067 DRAWNS:SN01 2009/11/02 CHKCD:GJL0ME 2010/01/27 APPR:KPRASAD 2010/01/27 DESCRIPTION DT REV	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .13</td> <td>± .005</td> </tr> <tr> <td>3 PLACES</td> <td>± .13</td> <td>± .010</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.25</td> <td>± .010</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± .010</td> </tr> <tr> <td>ANGULAR</td> <td>± .005</td> <td>°</td> </tr> </table>		mm	INCH	4 PLACES	± .13	± .005	3 PLACES	± .13	± .010	2 PLACES	± 0.25	± .010	1 PLACE	± 0.25	± .010	ANGULAR	± .005	°	DIMENSION STYLE IN/MM DRAWN BY SSUDHIR DATE 2004/06/08 CHECKED BY GJLOWE DATE 2004/06/08 APPROVED BY GJLOWE DATE 2004/06/08	SCALE NTS DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE HEADER HOUSING ASSEMBLY .084/(2.13)DIA.SERIES	MOLEX INCORPORATED	MATERIAL NO. SDA-42002-***** DOCUMENT NO.	SHEET NO. 1 OF 2
		mm	INCH																							
4 PLACES	± .13	± .005																								
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ANGULAR	± .005	°																								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																						

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

PART NO.	ENG. NO.	CIRCUIT SIZE	MATERIAL (SEE NOTE 1)	INSULATOR PART NO.	PLATING (SEE NOTE 2)	TERMINAL PART NO.	*B* DIM ±.015
IO-84-4020	A-42002-2A IA I	2	A	42002-2A	A	42005-P921A	.17/(4,3)
IO-84-5020	A-42002-2C IA I		C	42002-2C	A	42005-P921A	
IO-84-4022	A-42002-2A2A I		A	42002-2A	A	42006-P921A	
IO-84-5021	A-42002-2C2A I		C	42002-2C	A	42006-P921A	
367590101	36759-0101		D	366480042	A	42005-P921A	
367590141	36759-0141	D	366480042	A	42006-P921A		
367570101	36757-0101	E	367570001	A	42005-P921A		
367570141	36757-0141	E	367570001	A	42006-P921A		
IO-84-4030	A-42002-3A IA I	3	A	42002-3A	A	42005-P921A	.17/(4,3)
IO-84-5030	A-42002-3C IA I		C	42002-3C	A	42005-P921A	
IO-84-4032	A-42002-3A2A I		A	42002-3A	A	42006-P921A	
IO-84-5031	A-42002-3C2A I		C	42002-3C	A	42006-P921A	
367590102	36759-0102		D	366480043	A	42005-P921A	
367590142	36759-0142	D	366480043	A	42006-P921A		
367570102	36757-0102	E	367570002	A	42005-P921A		
367570142	36757-0142	E	367570002	A	42006-P921A		
IO-84-4040	A-42002-4A IA I	4	A	42002-4A	A	42005-P921A	.17/(4,3)
IO-84-5040	A-42002-4C IA I		C	42002-4C	A	42005-P921A	
IO-84-4042	A-42002-4A2A I		A	42002-4A	A	42006-P921A	
IO-84-5041	A-42002-4C2A I		C	42002-4C	A	42006-P921A	
367590103	36759-0103		D	366480044	A	42005-P921A	
367590143	36759-0143	D	366480044	A	42006-P921A		
367570103	36757-0103	E	367570003	A	42005-P921A		
367570143	36757-0143	E	367570003	A	42006-P921A		
IO-84-4060	A-42002-6A IA I	6	A	42002-6A	A	42005-P921A	.17/(4,3)
IO-84-5060	A-42002-6C IA I		C	42002-6C	A	42005-P921A	
IO-84-4062	A-42002-6A2A I		A	42002-6A	A	42006-P921A	
IO-84-5061	A-42002-6C2A I		C	42002-6C	A	42006-P921A	
367590104	36759-0104		D	366480045	A	42005-P921A	
367590144	36759-0144	D	366480045	A	42006-P921A		
367570104	36757-0104	E	367570004	A	42005-P921A		
367570144	36757-0144	E	367570004	A	42006-P921A		
IO-84-4090	A-42002-9A IA I	9	A	42002-9A	A	42005-P921A	.17/(4,3)
IO-84-5090	A-42002-9C IA I		C	42002-9C	A	42005-P921A	
IO-84-4092	A-42002-9A2A I		A	42002-9A	A	42006-P921A	
IO-84-5091	A-42002-9C2A I		C	42002-9C	A	42006-P921A	
367590105	36759-0105		D	366480046	A	42005-P921A	
367590145	36759-0145	D	366480046	A	42006-P921A		
367570105	36757-0105	E	367570005	A	42005-P921A		
367570145	36757-0145	E	367570005	A	42006-P921A		
IO-84-4120	A-42002-12A IA I	12	A	42002-12A	A	42005-P921A	.17/(4,3)
IO-84-5120	A-42002-12C IA I		C	42002-12C	A	42005-P921A	
IO-84-4122	A-42002-12A2A I		A	42002-12A	A	42006-P921A	
IO-84-5121	A-42002-12C2A I		C	42002-12C	A	42006-P921A	
367590106	36759-0106		D	366480047	A	42005-P921A	
367590146	36759-0146	D	366480047	A	42006-P921A		
367570106	36757-0106	E	367570006	A	42005-P921A		
367570146	36757-0146	E	367570006	A	42006-P921A		
IO-84-4150	A-42002-15A IA I	15	A	42002-15A	A	42005-P921A	.17/(4,3)
IO-84-5150	A-42002-15C IA I		C	42002-15C	A	42005-P921A	
IO-84-4152	A-42002-15A2A I		A	42002-15A	A	42006-P921A	
IO-84-5151	A-42002-15C2A I		C	42002-15C	A	42006-P921A	
367590107	36759-0107		D	366480057	A	42005-P921A	
367590147	36759-0147	D	366480057	A	42006-P921A		
367570107	36757-0107	E	367570007	A	42005-P921A		
367570147	36757-0147	E	367570007	A	42006-P921A		

ENTER DESCRIPTION UNLESS OTHERWISE SPECIFIED DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES	QUALITY SYMBOLS ∇=0 ∇=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) DIM INCH 4 PLACES ±.005 ±.005 3 PLACES ±.010 ±.010 2 PLACES ±.025 ±.025 1 PLACE ±.050 ±.050 ANGULAR ±.050 ±.050	DIMENSION STYLE IN/MM	SCALE NTS INCH	DESIGN UNITS INCH	<input checked="" type="checkbox"/> THIRD ANGLE PROJECTION	DATE 2009/11/02 2010/01/27 2010/01/27	DESIGNED BY SSUDHIR	DATE 2004/06/08	TITLE HEADER HOUSING ASSEMBLY .084/12.13/DIA.SERIES
							APPROVED BY GJLOWE	DATE 2004/06/08	APPROVED BY GJLOWE	DATE 2004/06/08
DRAFT WHERE APPLICABLE MUST REMAIN WITH DIMENSIONS		SEE CHART		MATERIAL NO. SDA-42002-*****	DOCUMENT NO. SDA-42002-*****	SHEET NO. 2 OF 2				