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Part Number: [0432550091](#)
Status: **Active**
Overview: [mlx](#)
Description: 6.35mm (.250") Pitch MLX™ Power Connector Header, Vertical, with Plastic Polarizing Peg, 9 Circuits, Polyester 94V-0, Tin (Sn) Plating, White

Documents:
[3D Model](#) [Product Specification PSX-42002-0001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

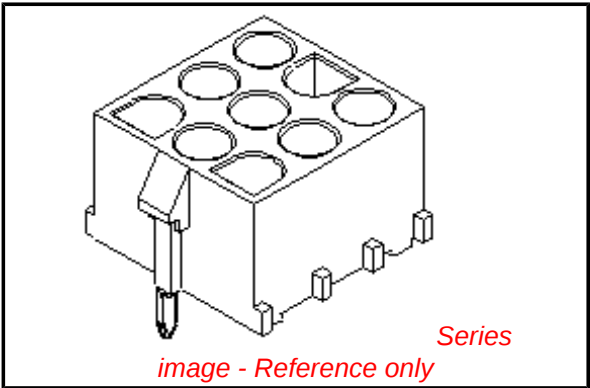
CSA LR19980
UL E29179

General

Product Family PCB Headers
Series [43255](#)
Application Wire-to-Board
Comments High Vibration Application
Overview [mlx](#)
Product Name MLX™

Physical

Breakaway No
Circuits (Loaded) 9
Circuits (maximum) 9
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
Mated Height (in) 1.195 In
Mated Height (mm) 30.35 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Tin
Material - Plating Termination Tin
Material - Resin Polyester
Number of Rows 3
Orientation Vertical
PC Tail Length (in) 0.169 In
PC Tail Length (mm) 4.30 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 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
Pitch - Term. Interface (in) 0.250 In
Pitch - Term. Interface (mm) 6.35 mm
Plating min: Mating (µin) 140
Plating min: Mating (µm) 3.5
Polarized to Mating Part 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
[43255Series](#)

Mates With
[42021](#) MLX™ Power Crimp Housing Plug.
[42024](#) MLX Crimp Terminal

Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	9A
Voltage - Maximum	600V

Solder Process Data

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

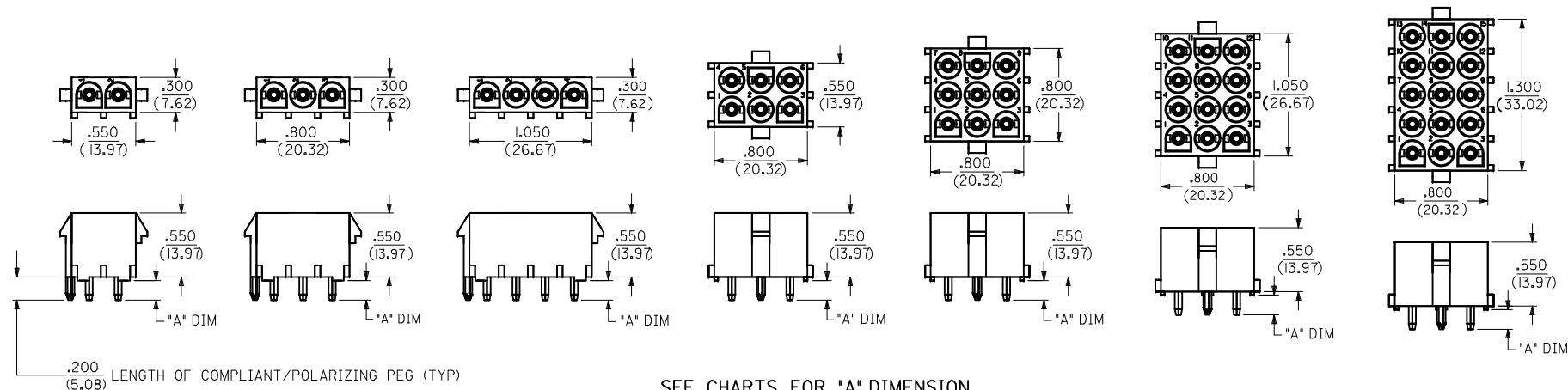
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-43255-003
Product Specification	PSX-42002-0001
Sales Drawing	SDA-43255-00**

This document was generated on 05/24/2010

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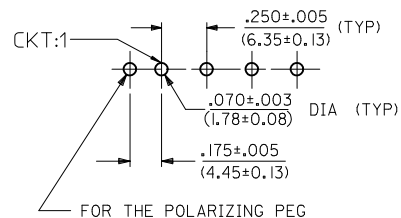


SEE CHARTS FOR 'A' DIMENSION

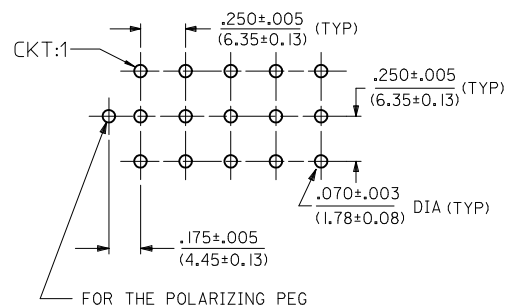
(THE 'A' DIMENSION APPLIES TO THE LENGTH OF THE TERMINAL ONLY)

P.C. BOARD MOUNTING DIMENSIONS

2, 3, & 4 POSITION HEADER ASSEMBLIES



6, 9, 12 & 15 POSITION HEADER ASSEMBLIES



NOTES:

1) MATERIAL CODES:

- 'A' = UNREINFORCED POLYESTER, 94V-0. COLOR: WHITE
- 'C' = NYLON (PA66), UL94V-2. COLOR: NATURAL-TRANSLUCENT
- 'D' = NYLON, V-2, COLOUR: BLACK (ZYTEL 101F)
- 'E' = PA6, SCHULAMID V-2 GRADE, CTI=325V, GLOW WIRE COMPATIBLE COLOUR: NATURAL-WHITE

2) PLATING CODES:

- 'A' = TIN 140 m.l.(3.50 MICRONS) TO 240 m.l (6.00 MICRONS)

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: (4202I-**)

6) CONTACTS ARE ON .250/(6.35) GRID CENTERLINE SPACING.

7) PACKAGING SPECIFICATION:

- 'A' - PK-43255-001, PK-43255-002, PK-43255-003
- 'B' - PK-36518-292

RoHS COMPLIANT

ENTER DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: 2010-0191		2009/12/31		mm		IN/MM		1:1	INCH		
DRWN: HMR01		2010/01/05		4 PLACES ± ---		DRAWN BY		DATE		TITLE	
CHKD: KPRASAD		2010/01/05		3 PLACES ± ---		SUDHIR		2004/06/08		HEADER HOUSING ASSEMBLY	
APPR: KPRASAD		2010/01/13		2 PLACES ± 0.13		CHECKED BY		DATE		.084/(2.13) SERIES	
				1 PLACE ± 0.25		GJLOWE		2004/06/08		COMPLIANT-POLARIZING PEG	
				ANGULAR ± 1/2°		APPROVED BY		DATE		MOLEX INCORPORATED	
				DRAFT WHERE APPLICABLE		GJLOWE		2004/06/08		MATERIAL NO.	
E2		REV		MUST REMAIN WITHIN DIMENSIONS		SIZE		DOCUMENT NO.		SHEET NO.	
						A2		SDA-43255-00**		1 OF 2	

	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																				
M		ITEM NO.	CIRCUIT SIZE	MATERIAL COLOR (SEE NOTE 1)	PIN (1) OR SOCKET (2) TERMINALS	TERMINAL PLATING (SEE NOTE 2)	TERMINAL LENGTH (SEE NOTE 3)	"A" DIM ±.015	PACKAGING (SEE NOTE 7)												M																			
		43255-0003	2	A	2	A		.17/(4,3)	A																															
		43255-0059		A	1	A			A																															
		43255-0113		C	1	A			A																															
		43255-0115		C	2	A			A																															
		36759-0021		D	1	A			A																															
		36759-0061		D	2	A			A																															
L		36757-0021	3	E	1	A			A												L																			
		36757-0061		E	2	A			A																															
		43255-0011		A	2	A		.17/(4,3)	A																															
		43255-0067		A	1	A			A																															
		43255-0121		C	1	A			A																															
		43255-0123		C	2	A			A																															
K		36759-0022	4	D	1	A			A												K																			
		36759-0062		D	2	A			A																															
		36757-0022		E	1	A			A																															
		36757-0062		E	2	A			A																															
		43255-0019		A	2	A		.17/(4,3)	A																															
		43255-0075		A	1	A			A																															
J		43255-0129	6	C	1	A			A												J																			
		43255-0131		C	2	A			A																															
		36759-0023		D	1	A			A																															
		36759-0063		D	2	A			A																															
		36757-0023		E	1	A			A																															
		36757-0063		E	2	A			A																															
I		43255-0027	9	A	2	A		.17/(4,3)	A												I																			
		43255-0083		A	1	A			A																															
		43255-0137		C	1	A			A																															
		43255-0139		C	2	A			A																															
		36759-0024		D	1	A			A																															
		36759-0064		D	2	A			A																															
H		36757-0024	12	E	1	A			A												H																			
		36757-0064		E	2	A			A																															
		43255-0035		A	2	A		.17/(4,3)	A																															
		43255-0091		A	1	A			A																															
		43255-0145		C	1	A			A																															
		43255-0147		C	2	A			A																															
G		36759-0025	15	D	1	A			A												G																			
		36759-0065		D	2	A			A																															
		36757-0025		E	1	A			A																															
		36757-0065		E	2	A			A																															
		43255-0043		A	2	A		.17/(4,3)	A																															
		43255-0099		A	1	A			A																															
F		43255-0153	2	C	1	A			A												F																			
		43255-0155		C	2	A			A																															
		36759-0026		D	1	A			A																															
		36759-0066		D	2	A			A																															
		36757-0026		E	1	A			A																															
		36757-0066		E	2	A			A																															
E		43255-0051	3	A	2	A		.17/(4,3)	A												E																			
		43255-0107		A	1	A			A																															
		43255-0161		C	1	A			A																															
		43255-0163		C	2	A			A																															
		36759-0027		D	1	A			A																															
		36759-0067		D	2	A			A																															
D		36757-0027	4	E	1	A			A												D																			
		36757-0067		E	2	A			A																															
		36766-0001		C	1	A		.17/(4,3)	B																															
		36766-0002		C	1	A			B																															
		36766-0003		C	1	A			B																															
				C	1	A			B																															
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b:\frame_A1_P_AM.T Rev. E 2006/04/15																					19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	

ENTER DESCRIPTION

EC NO: 12010-0191

2009/12/31

DRWN:HM01

2010/01/05

CHKD:KPRASAD

2010/01/13

APPR:KPRASAD

REV

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .---	± .---
3 PLACES	± .---	± 0.005
2 PLACES	± 0.13	± 0.01
1 PLACE	± 0.25	± .---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

IN/MM

DRAWN BY	DATE
SUDHIR	2004/06/08
CHECKED BY	DATE
GJLOWE	2004/06/08
APPROVED BY	DATE
GJLOWE	2004/06/08

MATERIAL NO.

SEE CHART

SIZE

A 1

SCALE

DESIGN UNITS

INCH

THIRD ANGLE PROJECTION

TITLE

HEADER HOUSING ASSEMBLY
.084/(12.13) SERIES
COMPLIANT-POLARIZING PEG

molex

MOLEX INCORPORATED

DOCUMENT NO.

SDA-43255-00**

SHEET NO.

2 OF 2

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RoHS COMPLIANT

RoHS COMPLIANT

ENTER DESCRIPTION 2099/12/31 2010/01/05 2010/01/13 DRWN:HM01 CHKD:KPRASAD APPR:KPRASAD	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table> <tr> <th></th><th>mm</th><th>INCH</th></tr> <tr> <td>4 PLACES</td><td>± .---</td><td>± .---</td></tr> <tr> <td>3 PLACES</td><td>± .---</td><td>± 0.005</td></tr> <tr> <td>2 PLACES</td><td>± 0.13</td><td>± 0.01</td></tr> <tr> <td>1 PLACE</td><td>± 0.25</td><td>± .---</td></tr> <tr> <td colspan="3">ANGULAR ± 1/2°</td></tr> </table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		mm	INCH	4 PLACES	± .---	± .---	3 PLACES	± .---	± 0.005	2 PLACES	± 0.13	± 0.01	1 PLACE	± 0.25	± .---	ANGULAR ± 1/2°			DIMENSION STYLE IN/MM <table> <tr> <td>DRAWN BY</td><td>DATE</td></tr> <tr> <td>SUDHIR</td><td>2004/06/08</td></tr> <tr> <td>CHECKED BY</td><td>DATE</td></tr> <tr> <td>GJLOWE</td><td>2004/06/08</td></tr> <tr> <td>APPROVED BY</td><td>DATE</td></tr> <tr> <td>GJLOWE</td><td>2004/06/08</td></tr> </table>	DRAWN BY	DATE	SUDHIR	2004/06/08	CHECKED BY	DATE	GJLOWE	2004/06/08	APPROVED BY	DATE	GJLOWE	2004/06/08	TITLE HEADER HOUSING ASSEMBLY .084/(12.13) SERIES COMPLIANT-POLARIZING PEG MOLEX INCORPORATED DOCUMENT NO. SDA-43255-00** SHEET NO. 2 OF 2
					mm	INCH																													
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