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Part Number: [0432550099](#)
Status: **Active**
Overview: [mlx](#)
Description: 6.35mm (.250") Pitch MLX™ Power Connector Header, Vertical, with Plastic Polarizing Peg, 12 Circuits, Polyester 94V-0, Gold (Au) Selective Plating, White

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

Agency Certification

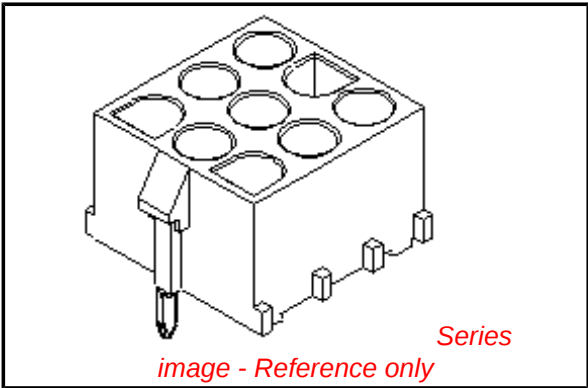
CSA LR19980
UL E29179

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) 12
Circuits (maximum) 12
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) 0.170 In
PC Tail Length (mm) 4.32 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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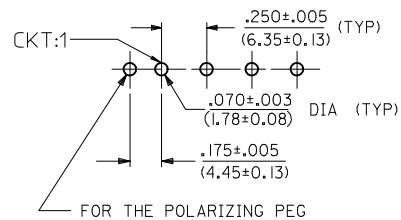


SEE CHARTS FOR 'A' DIMENSION

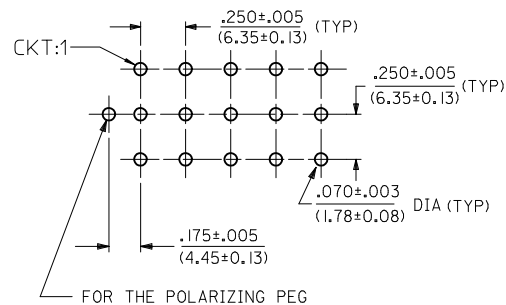
(THE 'A' DIMENSION APPLIES TO THE LENGTH OF THE TERMINAL ONLY)

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: 12010-0191		2009/12/31		mm		IN/MM		1:1	INCH	 THIRD ANGLE PROJECTION			
DRWN:HMR01		2010/01/05		4 PLACES ± --- ± ---		DRAWN BY DATE		TITLE					
CHKD:KPRASAD		2010/01/05		3 PLACES ± --- ± 0.005		CHECKED BY DATE		HEADER HOUSING ASSEMBLY					
APPR:KPRASAD		2010/01/13		2 PLACES ± 0.13 ± 0.01		GJLOWE 2004/06/08		.084/(2.13) SERIES					
				1 PLACE ± 0.25 ± ---		APPROVED BY DATE		COMPLIANT-POLARIZING PEG					
				ANGULAR ±1/2°		GJLOWE 2004/06/08		molex MOLEX INCORPORATED					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
						SEE CHART		SDA-43255-00**				1 OF 2	
						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
						A2							

	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
		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/(14,3)	A												M
		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/(14,3)	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/(14,3)	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/(14,3)	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/(14,3)	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/(14,3)	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/(14,3)	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/(14,3)	B												
		36766-0002		C	1	A			B												
		36766-0003		C	1	A			B												

RoHS COMPLIANT

ENTER DESCRIPTION E2 DEC NO: 12010-0191 2009/12/31 DRWN:HM01 CHYKOKPRASAD APPR:KPRASAD 2010/01/05 2010/01/13	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE INCH	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY	DATE	TITLE			
		4 PLACES ± ---	± ---	SUDHIR	2004/06/08	HEADER HOUSING ASSEMBLY .084/(12.13) SERIES			
		3 PLACES ± ---	± 0.005	CHECKED BY	DATE	COMPLIANT-POLARIZING PEG			
		2 PLACES ± 0.13	± 0.01	GJLOWE	2004/06/08	MOLEX INCORPORATED			
		1 PLACE ± 0.25	± ---	APPROVED BY	DATE	DOCUMENT NO.			
		ANGULAR ± 1/2°		GJLOWE	2004/06/08	SDA-43255-00**			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SHEET NO. 2 OF 2			
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