

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0705450036](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch SL™ Header, Single Row .120" Pocket Vertical, Shrouded, with Press-fir Plastic Peg, 2 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating

Documents:	
3D Model	Product Specification PS-70400 (PDF)
Drawing (PDF)	Product Specification PS-70541 (PDF)
Packaging Specification (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

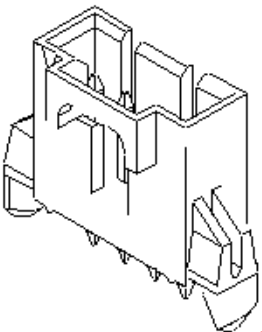
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	70545
Application	Wire-to-Board
Overview	cgrid_sl_products
Product Name	SL™

Physical

Breakaway	No
Circuits (Loaded)	2
Circuits (maximum)	2
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.130 In
PC Tail Length (mm)	3.30 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tube
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.375
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.875
Polarized to Mating Part	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C



*Series
image - Reference only*

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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

[70545Series](#)

Mates With

[70066n](#) , [70066g](#) , [70430g](#) , [70400g](#) Housing

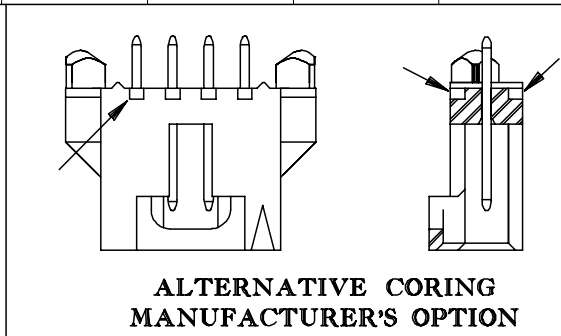
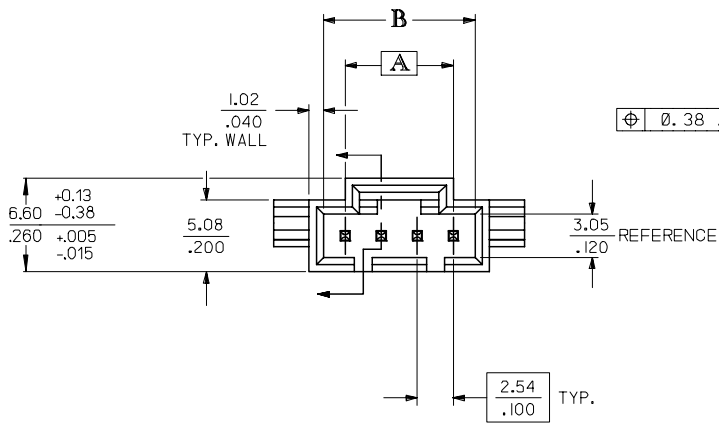
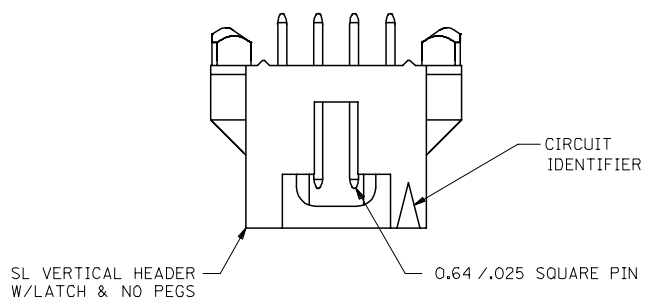
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	3A
Voltage - Maximum	250V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260
Material Info	
Old Part Number	A-70545-0036
Reference - Drawing Numbers	
Packaging Specification	PK-70873-0014
Product Specification	PS-70400, PS-70541
Sales Drawing	SDA-70545-****

This document was generated on 05/25/2010

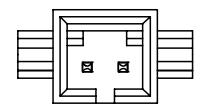
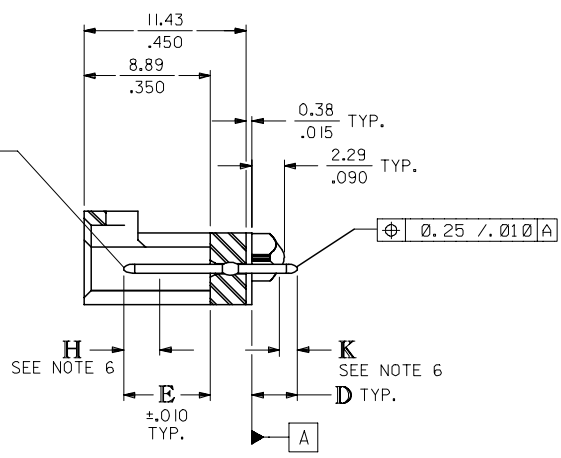
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13 12 11 10 9 8 7 6 5 4 3 2 1

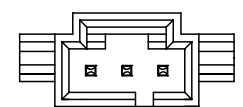
J
I
H
G
F
E
D
C
B
A



CKT. SIZE	DIM. "A"		DIM. "B"	
	MM	IN.	MM	IN.
2	2.54	.100	5.33 $\pm$ 0.08	.210 $\pm$.003
3	5.08	.200	8.13 $\pm$ 0.10	.320 $\pm$.004
4	7.62	.300	10.67 $\pm$ 0.10	.420 $\pm$.004
5	10.16	.400	13.21 $\pm$ 0.10	.520 $\pm$.004
6	12.70	.500	15.75 $\pm$ 0.10	.620 $\pm$.004
7	15.24	.600	18.29 $\pm$ 0.10	.720 $\pm$.004
8	17.78	.700	20.83 $\pm$ 0.10	.820 $\pm$.004
9	20.32	.800	23.37 $\pm$ 0.10	.920 $\pm$.004
10	22.86	.900	25.91 $\pm$ 0.13	1.020 $\pm$.005
11	25.40	1.000	28.45 $\pm$ 0.13	1.120 $\pm$.005
12	27.94	1.100	30.99 $\pm$ 0.13	1.220 $\pm$.005
13	30.48	1.200	33.53 $\pm$ 0.13	1.320 $\pm$.005
14	33.02	1.300	36.07 $\pm$ 0.13	1.420 $\pm$.005
15	35.56	1.400	38.61 $\pm$ 0.15	1.520 $\pm$.006
16	38.10	1.500	41.15 $\pm$ 0.15	1.620 $\pm$.006
17	40.64	1.600	43.69 $\pm$ 0.15	1.720 $\pm$.006
18	43.18	1.700	46.23 $\pm$ 0.15	1.820 $\pm$.006
19	45.72	1.800	48.77 $\pm$ 0.18	1.920 $\pm$.007
20	48.26	1.900	51.31 $\pm$ 0.18	2.020 $\pm$.007
21	50.80	2.000	53.85 $\pm$ 0.18	2.120 $\pm$.007
22	53.34	2.100	56.39 $\pm$ 0.18	2.220 $\pm$.007
23	55.88	2.200	58.93 $\pm$ 0.18	2.320 $\pm$.007
24	58.42	2.300	61.47 $\pm$ 0.18	2.420 $\pm$.007
25	60.96	2.400	64.01 $\pm$ 0.20	2.520 $\pm$.008

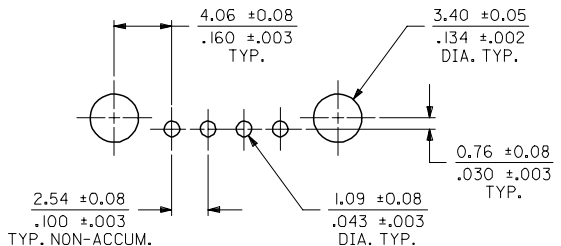


2 CIRCUIT



3 CIRCUIT

- NOTES:
- HEADER MATERIAL: GLASS FILLED POLYESTER, UL94V-0; COLOR: BLACK
PIN MATERIAL: PHOSPHOR BRONZE
 - FINISH:
TIN - 0.00381/0.00150 MIN TIN PLATE
OVER 0.00127/0.00050 MIN NICKEL PLATE
15 GOLD - 0.00038/0.00015 MIN GOLD PLATE IN SELECT AREA,
0.00191/0.00075 MIN TIN PLATE IN SELECT AREA,
OVER 0.00127/0.00050 MIN NICKEL PLATE OVERALL.
30 GOLD - 0.00076/0.00030 MIN GOLD PLATE IN SELECT AREA,
0.00191/0.00075 MIN TIN PLATE IN SELECT AREA,
OVER 0.00127/0.00050 MIN NICKEL PLATE OVERALL.
* THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS
DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."
CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.
 - PRODUCT SPECIFICATION: PS-70541
 - PACKAGING SPECIFICATION: PK-70873-0014
 - HEADER TO BE USED WITH OPTION "G" 70400 AND
70430 SERIES SL CONNECTORS.
 - MEASURE POINT FOR PLATING THICKNESS.



RECOMMENDED PC BOARD LAYOUT
(FOR USE WITH .157 $\pm$.062 THICK BOARD)

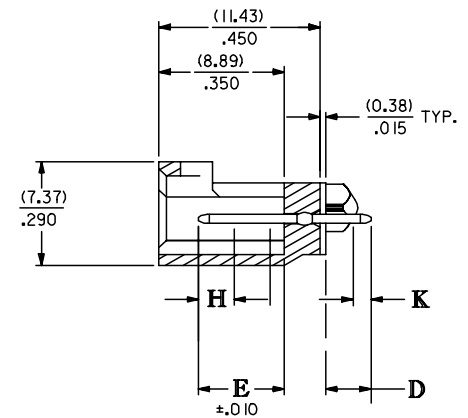
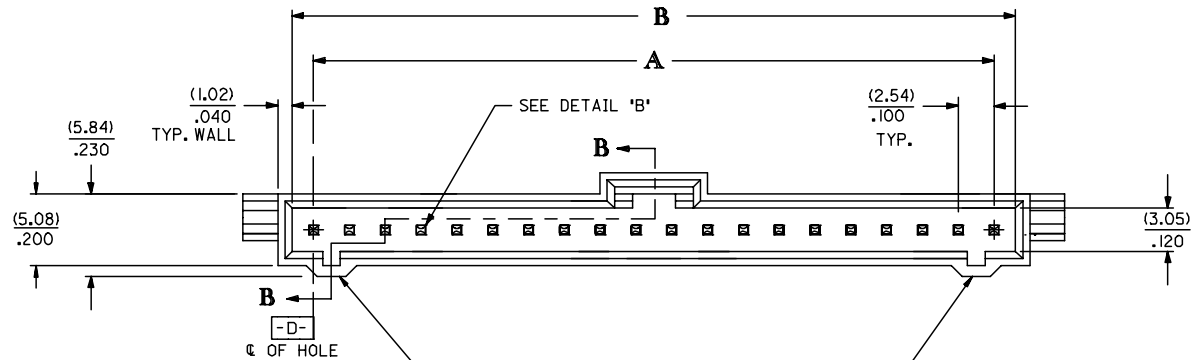
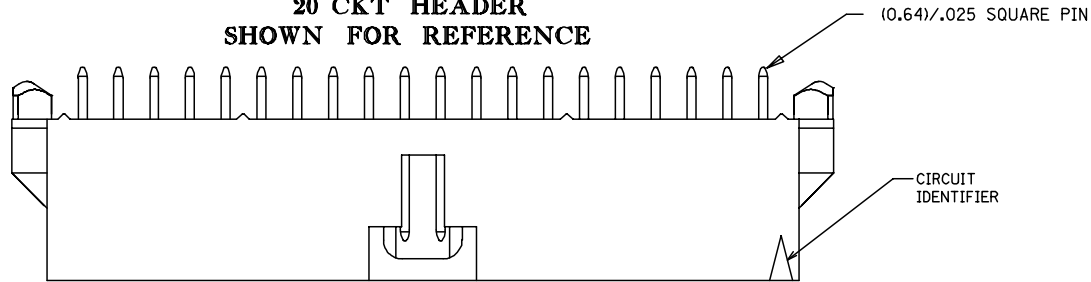
CLARIFY DIM. EC NO: UCP2007-1216 2006/11/28 DRAWN: S. BARRA CHKD: J. MORGAN 2006/12/04 APPR: S. MILLER 2006/12/05	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
						MM/IN		4:1	INCH		
						DRAWN BY	DATE	TITLE SALES ASSY, SL VERTICAL HEADER W/LATCH&TRI-PEGS (2.54)/.100 CENTERS			
						CHECKED BY	DATE				
				4 PLACES ± --- ± ---		AAB	05/12/93	MOLEX MOLEX INCORPORATED			
				3 PLACES ± --- ± .005							
				2 PLACES ± 0.13 ± .01		MJM	05/12/93	DOCUMENT NO. SDA-70545-****			
				1 PLACE ± 0.25 ± ---		APPROVED BY	DATE				
				ANGULAR ±1/2°		WAZ	05/12/93	SHEET NO. 1 OF 4			
						MATERIAL NO.					
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							

12 11 10 9 8 7 6 5 4 3 2 1

OPTIONAL HOUSING

WEBBED KEYING FEATURES

20 CKT HEADER
SHOWN FOR REFERENCE



SECTION B-B

UPDATE TITLE BLOCK EC NO: UCP2006-0202 DRWN: JLOWE CHKD: ADERR APPR: FSMTH REV T1		DESCRIPTION 2005/08/05 2005/08/05 2005/08/09	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE ---	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
					mm	INCH	DRAWN BY WGM	DATE 07/10/96	TITLE SALES ASSY, SL VERTICAL HEADER W/LATCH&TRI-PEGS (2.54)/.100 CENTERS  MOLEX INCORPORATED	
				4 PLACES	± ---	± ---	CHECKED BY WGM	DATE 07/10/96		
				3 PLACES	± ---	± .005				
				2 PLACES	± 0.13	± .01				
				1 PLACE	± 0.25	± ---				
		ANGULAR	± 1/2°		APPROVED BY WAZ		DATE 07/10/96			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO. SEE CHART		DOCUMENT NO. SDA-70545-****			SHEET NO. 2 OF 4	
				SIZE		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	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER 70545	MANUFACTURE RELEASE STATUS			D (± 0.38) ± .015	E (± 0.25) ± .010		CONNECTOR END PLATING			P.C. BOARD END PLATING			
									TYPE	H MEAS.		TYPE	K MEAS.		
	2-10	-0001-0009	R.F.M.			(3.30) .130	(6.10) .240		TIN	(2.54) .100		TIN	(1.27) .050		
I	11-25	-0010-0024	R.F.M.												
	2-10	-0036-0044	R.F.M.			(3.30) .130	(6.10) .240		15 GOLD	(2.54) .100		TIN	(1.27) .050		
H	11-25	-0045-0059	R.F.M.												
	2-10	-0071-0079	R.F.M.			(3.30) .130	(6.10) .240		30 GOLD	(2.54) .100		TIN	(1.27) .050		
G	11-25	-0080-0094	R.F.M.												
	2-10	-0141-0149	R.F.M.			(5.21) .205	(6.10) .240		15 GOLD	(2.54) .100		TIN	(1.27) .050		
	11-25	-0150-0164	NOT TOOLED												
	2-10	-0176-0184	R.F.M.			(5.21) .205	(6.10) .240		30 GOLD	(2.54) .100		TIN	(1.27) .050		
	11-25	-0185-0199	NOT TOOLED												
F	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER	ASSEMBLY ITEM NUMBER	ASSEMBLY ITEM NUMBER	ASSEMBLY ITEM NUMBER	ASSEMBLY ITEM NUMBER									
	2	70545-0001	70545-0036	70545-0071	70545-0141	70545-0176									
E	3	70545-0002	70545-0037	70545-0072	70545-0142	70545-0177									
	4	70545-0003	70545-0038	70545-0073	70545-0143	70545-0178									
	5	70545-0004	70545-0039	70545-0074	70545-0144	70545-0179									
	6	70545-0005	70545-0040	70545-0075	70545-0145	70545-0180									
	7	70545-0006	70545-0041	70545-0076	70545-0146	70545-0181									
	8	70545-0007	70545-0042	70545-0077	70545-0147	70545-0182									
	9	70545-0008	70545-0043	70545-0078	70545-0148	70545-0183									
	10	70545-0009	70545-0044	70545-0079	70545-0149	70545-0184									
	11	70545-0010	70545-0045	70545-0080											
	12	70545-0011	70545-0046	70545-0081											
	13	70545-0012	70545-0047	70545-0082											
	14	70545-0013	70545-0048	70545-0083											
	15	70545-0014	70545-0049	70545-0084											
	16	70545-0015	70545-0050	70545-0085											
	17	70545-0016	70545-0051	70545-0086											
	18	70545-0017	70545-0052	70545-0087											
	19	70545-0018	70545-0053	70545-0088											
	20	70545-0019	70545-0054	70545-0089											
	21	70545-0020	70545-0055	70545-0090											
	22	70545-0021	70545-0056	70545-0091											
	23	70545-0022	70545-0057	70545-0092											
	24	70545-0023	70545-0058	70545-0093											
	25	70545-0024	70545-0059	70545-0094											
B															
A															

CHG D DIM -0141-0199

EC NO: UCP2007-0420

2006/09/15

DRW:NDJORGAN

2006/09/15

CHKD:MS BARA

2006/09/15

APPR:SMILLER

2006/09/15

REV

QUALITY SYMBOLS

▽=0

▽=0

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

DRAWN BY

DATE

TITLE

3 PLACES ± --- ± ---

± .005

WGM

CHECKED BY

DATE

2 PLACES ± 0.13 ± .01

WGM

07/12/96

1 PLACE ± 0.25 ± ---

ANGULAR ±1/2°

APPROVED BY

DATE

07/12/96

DJB

MATERIAL NO.

DOCUMENT NO.

SDA-70545-****

SHEET NO.

3 OF 4

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

SALES ASSY, SL VERTICAL HEADER W/LATCH&TRI-PEGS (2.54)/.100 CENTERS

MOLEX INCORPORATED

13

12

11

10

9

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