

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0705450004

Status:

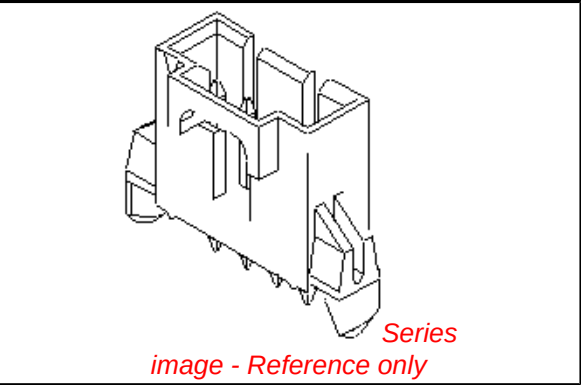
Active

Overview:

cgrid_sl_products

Description:

2.54mm (.100") Pitch SL™ Header, Single Row .120" Pocket Vertical, Shrouded, with Press-fir Plastic Peg, 5 Circuits, Tin (Sn) Plating



Documents:	
3D Model	Product Specification PS-70400 (PDF)
Packaging Specification (PDF)	Product Specification PS-70541 (PDF)
Drawing (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)	5
Circuits (maximum)	5
Color - Resin	Black
Durability (mating cycles max)	25
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass, Phosphor Bronze
Material - Plating Mating	Tin
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)	150
Plating min: Mating (µm)	3.75
Plating min: Termination (µin)	150
Plating min: Termination (µm)	3.75
Polarized to Mating Part	Yes
Shrouded	Fully
Stackable	No

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

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
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	1
Process Temperature max. C	245

Material Info

Old Part Number	A-70545-0004
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Reference - Drawing Numbers

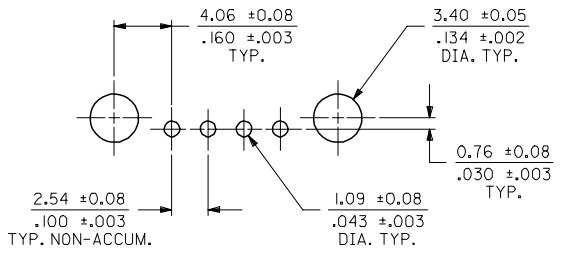
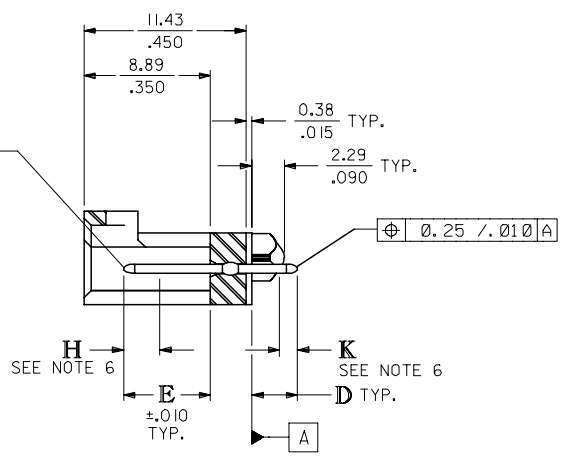
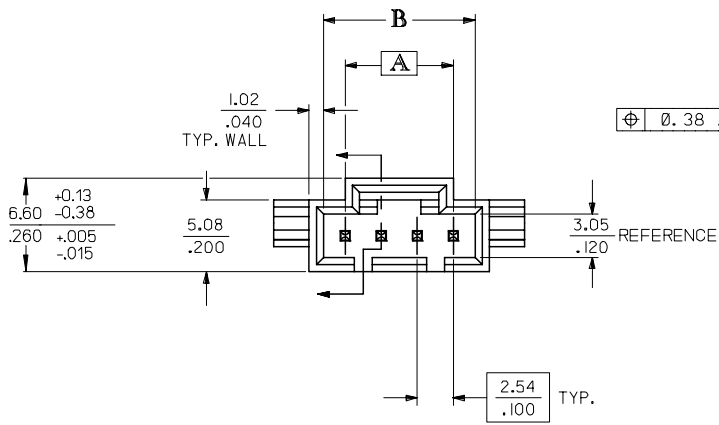
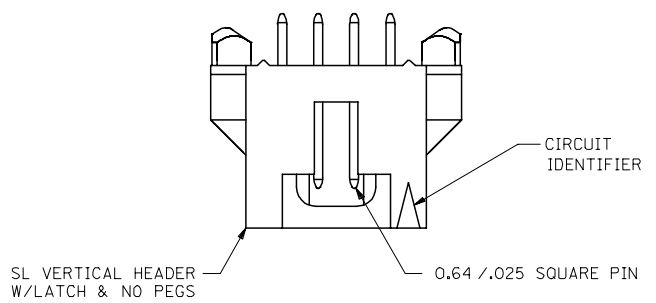
Packaging Specification	PK-70873-0014
Product Specification	PS-70400, PS-70541
Sales Drawing	SDA-70545-****

This document was generated on 05/24/2010

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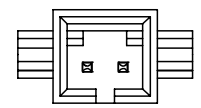
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J
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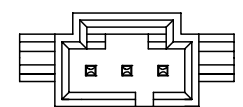


RECOMMENDED PC BOARD LAYOUT
(FOR USE WITH .157 $\pm$.062 THICK BOARD)

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:
1. HEADER MATERIAL: GLASS FILLED POLYESTER, UL94V-0; COLOR: BLACK
PIN MATERIAL: PHOSPHOR BRONZE
 2. 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.
 3. PRODUCT SPECIFICATION: PS-70541
 4. PACKAGING SPECIFICATION: PK-70873-0014
 5. HEADER TO BE USED WITH OPTION "G" 70400 AND 70430 SERIES SL CONNECTORS.
 6. MEASURE POINT FOR PLATING THICKNESS.

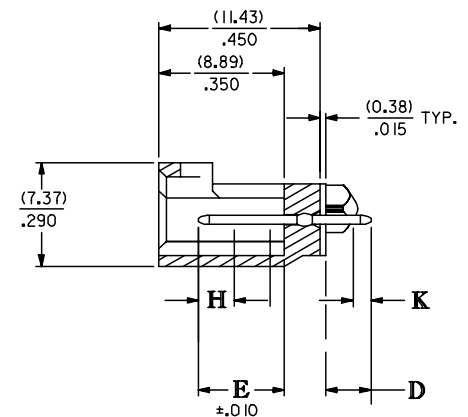
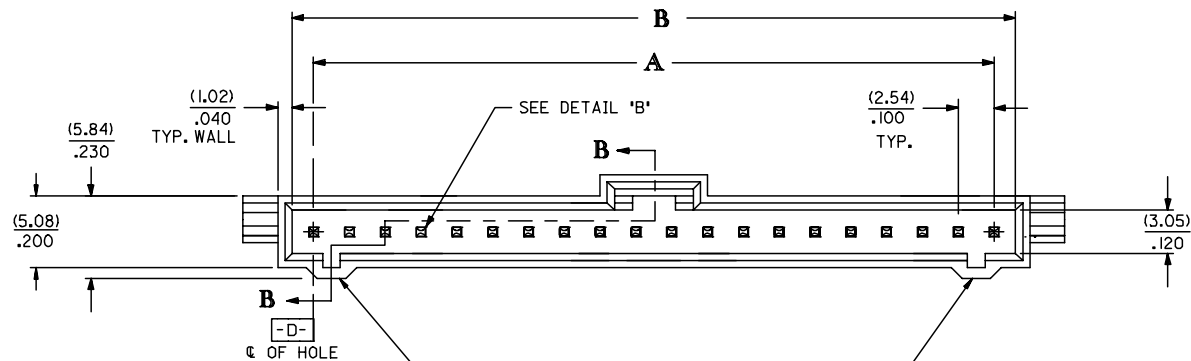
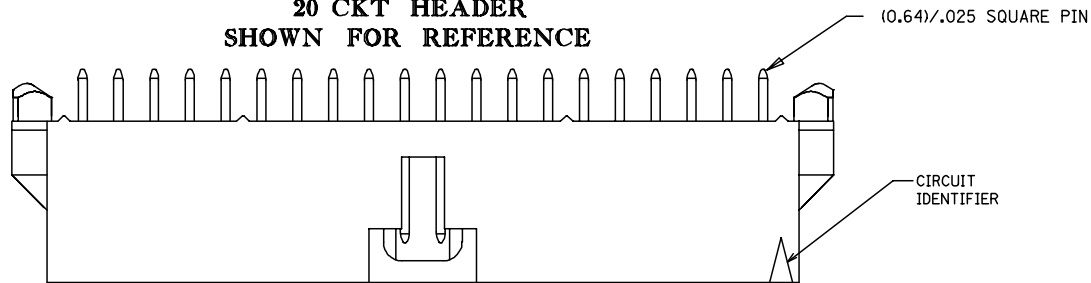
CLARIFY DIM. EC NO: UCP2007-1216 2006/11/28 DRAWN: S. BARRA CHKD: J. MORGAN APPR: S. MILLER 2006/12/04 2006/12/05	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		TITLE	
						MM/IN		4:1	INCH	◎ □		SALES ASSY, SL VERTICAL HEADER W/LATCH&TRI-PEGS (2.54)/.100 CENTERS	
						DRAWN BY DATE		TITLE					
				4 PLACES ± --- ± ---		AAB 05/12/93							
				3 PLACES ± --- ± .005		CHECKED BY DATE							
				2 PLACES ± 0.13 ± .01		MJM 05/12/93							
				1 PLACE ± 0.25 ± ---		APPROVED BY DATE							
				ANGULAR ±1/2°		WAZ 05/12/93		MOLEX MOLEX INCORPORATED					
						MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SDA-70545-****		1 OF 4			
		SIZE		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	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	APPROVED BY WAZ	DATE 07/10/96			
			2 PLACES	± 0.13	± .01	MATERIAL NO. SEE CHART				DOCUMENT NO. SDA-70545-****
			1 PLACE	± 0.25	± ---					
ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SHEET NO. 2 OF 4						
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 DRAWN: JORGAN 2006/09/15 CHKD: MS BARA 2006/09/15 APPR: SMILLER 2006/09/19						QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE ---	DESIGN UNITS INCH	THIRD ANGLE PROJECTION				
							mm INCH		DRAWN BY DATE WGM 07/12/96		TITLE SALES ASSY, SL VERTICAL HEADER W/LATCH&TRI-PEGS (2.54)/.100 CENTERS						
							4 PLACES ± --- ± ---		CHECKED BY DATE WGM 07/12/96		MATERIAL NO. DOCUMENT NO. SHEET NO.						
							3 PLACES ± --- ± .005		APPROVED BY DATE DJB 07/12/96		MOLEX INCORPORATED						
							2 PLACES ± 0.13 ± .01		MATERIAL NO. DOCUMENT NO. SHEET NO.		SDA-70545-**** 3 OF 4						
							1 PLACE ± 0.25 ± ---		MATERIAL NO. DOCUMENT NO. SHEET NO.		SDA-70545-**** 3 OF 4						
							ANGULAR ±1/2°		MATERIAL NO. DOCUMENT NO. SHEET NO.		SDA-70545-**** 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						
							SIZE C		SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
lb_frame_C_P_ME_T Rev. D 2004/04/02						12	11	10	9	8	7	6	5	4	3	2	1