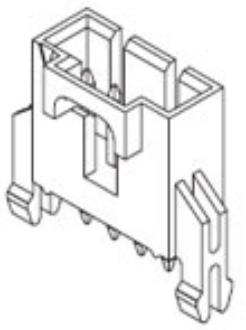
This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0705410072
Status: Active
Overview: cgrid__sl_products
Description: 2.54mm (.100") Pitch SL™ Header, Single Row, Vertical, .120" Pocket, Shrouded, with Beveled Plastic Peg, 3 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating



Series image - Reference only

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	70541
Application	Wire-to-Board
MolexKits	Yes
Overview	cgrid__sl_products
Product Name	SL™

Physical

Breakaway	No
Circuits (Loaded)	3
Circuits (maximum)	3
Color - Resin	Black
Durability (mating cycles max)	50
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	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)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.875
Polarized to Mating Part	Yes

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
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
70541Series

Mates With
SL™ Crimp Housing 70066 , 70430 , 70400

Shrouded	Fully
Stackable	No
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

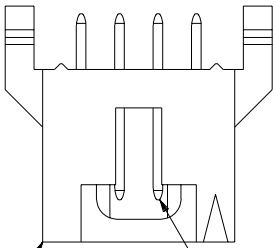
Solder Process Data

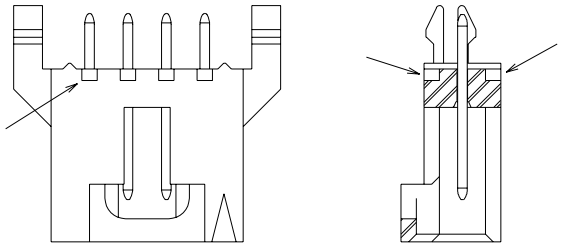
Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

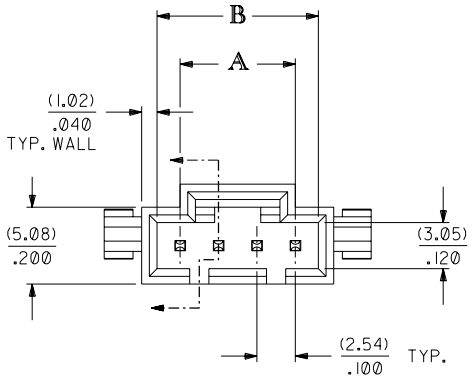
Packaging Specification	PK-70873-0014
Product Specification	PS-70400, PS-70541
Sales Drawing	SDA-70541-****

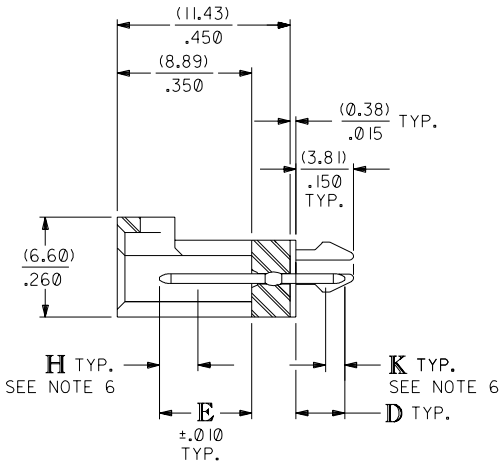


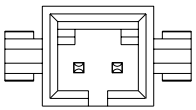


ALTERNATIVE CORING
MANUFACTURER'S OPTION

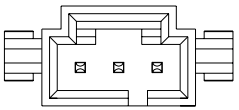
CKT. SIZE	DIM. "A" MM	DIM. "A" IN.	DIM. "B" MM	DIM. "B" IN.
2	2.54	.100	5.33	.210
3	5.08	.200	8.13	.320
4	7.62	.300	10.67	.420
5	10.16	.400	13.21	.520
6	12.70	.500	15.75	.620
7	15.24	.600	18.29	.720
8	17.78	.700	20.83	.820
9	20.32	.800	23.37	.920
10	22.86	.900	25.91	1.020







2 CIRCUIT



3 CIRCUIT

NOTES:

1. HEADER MATERIAL: GLASS FILLED POLYESTER; UL94V-0; COLOR: BLACK
   PIN MATERIAL: PHOSPHOR BRONZE
2. HEADER TO BE USED WITH OPTION "G" 70400 AND 70430 SERIES SL CONNECTORS.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-70541.
4. STANDARD PACKAGING PER PK-70873-0014.
5. DIMENSIONS WITHOUT TOLERANCE ARE SHOWN FOR REFERENCE ONLY.
6. MEASURE POINT FOR PLATING THICKNESS.

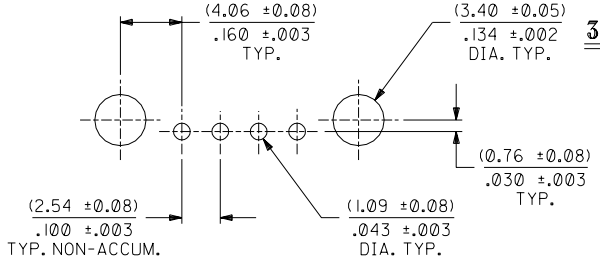
PLATING:

TIN - .000150 MINIMUM TIN PLATE
OVER .000050 MINIMUM NICKEL PLATE.

15 GOLD - .000015 MINIMUM GOLD PLATE IN SELECT AREA,
.000075 MINIMUM TIN PLATE IN SELECT AREA,
OVER .000050 MINIMUM NICKEL PLATE OVERALL.

30 GOLD - .000030 MINIMUM GOLD PLATE IN SELECT AREA,
.000075 MINIMUM TIN PLATE IN SELECT AREA,
OVER .000050 MINIMUM 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.



RECOMMENDED PC BOARD LAYOUT

(FOR USE WITH (1.57)/.062 THICK BOARD)

LTR.	REVISIONS	LTR.	REVISIONS
		H	ADDED TOLERANCES PER UDT2001-0723 JRWILLIAMS 01/04/26
		G	MODIFIED HOUSING MATERIAL CALLOUT ECN# UDT1999-0869 DMORGAN 99/04/23
I	LEAD FREE UCP2004-1769 RWHITE 04/03/25	F1	ADD -0178 ECR U7-1280 MCFARLAN 97/4/23

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
3 PLACE	±.005	
2 PLACE	±.01	± 0.13
1 PLACE		± 0.25

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY AAB | CHK'D. BY MJM | APP'D. BY WAZ | SCALE 4 : 1

▽ = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM

TITLE: SALES ASSY, SL VERTICAL HEADER W/LATCH & SPLIT PEGS (2.54)/.100 CENTERS

molex MOLEX INCORPORATED LISLE,ILL. 60532 U.S.A.

SHEET NO. 1 OF 2 | DATE 09/22/87

PART NO. SEE SHEET 2 | DRWG. NO. SDA-70541-****

FILE NAME S70541X1

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DIV. DA | SIZE C

MFG.	SH.	REV.
2	I	
I	I	

70541

CIRCUIT SIZE	ASSEMBLY ITEM NUMBER 70541	MANUFACTURE RELEASE STATUS				D REF.	E ± .010	CONNECTOR END PLATING TYPE	H MEAS.		P.C. BOARD END PLATING TYPE	K MEAS.	
2-10	-0001-0009	R.F.M.				(3.30) .130	(6.10) .240	TIN	(2.54) .100		TIN	(1.27) .050	
11-25	-0010-0024												
2-10	-0036-0044	R.F.M.				(3.30) .130	(6.10) .240	15 GOLD	(2.54) .100		TIN	(1.27) .050	
11-25	-0045-0059												
2-10	-0071-0079	R.F.M.				(3.30) .130	(6.10) .240	30 GOLD	(2.54) .100		TIN	(1.27) .050	
11-25	-0080-0094												
2-10	-0176-0184	R.F.M.				(3.30) .130	(6.10) .240	TIN	(2.54) .100		TIN	(1.27) .050	

CIRCUIT SIZE	ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER	
2		70541-0001		70541-0036		70541-0071						
3		70541-0002		70541-0037		70541-0072						
4		70541-0003		70541-0038		70541-0073						70541-0178
5		70541-0004		70541-0039		70541-0074						
6		70541-0005		70541-0040		70541-0075						
7		70541-0006		70541-0041		70541-0076						
8		70541-0007		70541-0042		70541-0077						
9		70541-0008		70541-0043		70541-0078						
10		70541-0009		70541-0044		70541-0079						
11	X	70541-0010	X	70541-0045	X	70541-0080						
12	X	70541-0011	X	70541-0046	X	70541-0081						
13	X	70541-0012	X	70541-0047	X	70541-0082						
14	X	70541-0013	X	70541-0048	X	70541-0083						
15	X	70541-0014	X	70541-0049	X	70541-0084						
16	X	70541-0015	X	70541-0050	X	70541-0085						
17	X	70541-0016	X	70541-0051	X	70541-0086						
18	X	70541-0017	X	70541-0052	X	70541-0087						
19	X	70541-0018	X	70541-0053	X	70541-0088						
20	X	70541-0019	X	70541-0054	X	70541-0089						
21	X	70541-0020	X	70541-0055	X	70541-0090						
22	X	70541-0021	X	70541-0056	X	70541-0091						
23	X	70541-0022	X	70541-0057	X	70541-0092						
24	X	70541-0023	X	70541-0058	X	70541-0093						
25	X	70541-0024	X	70541-0059	X	70541-0094						

"X" IN COLUMN UNDER "ASSEMBLY ITEM NUMBER" HEADING DENOTES TOOLING NOT AVAILABLE

LTR.	REVISIONS	LTR.	REVISIONS
		I	SEE SHEET 1
		H	SEE SHEET 1
		F1	SEE SHEET 1
		E	SEE SHEET 1
		D	SEE SHEET 1
		A	SEE SHEET 1

DIMENSIONS SHOWN (METRIC) INCH

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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY	AAB	CHK'D. BY	AAB
APP'D. BY	WAZ	SCALE	:

▽ = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM

TITLE: SALES ASSY, SL VERTICAL HEADER W/LATCH & SPLIT PEGS (2.54)/.100 CENTERS

molex MOLEX INCORPORATED LISLE,ILL. 60532 U.S.A.

SHEET NO. 2

DATE 09/22/87

PART NO. SEE CHART

DRWG. NO. SDA-70541-****

FILE NAME S7054IX2

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DIV. DA

SIZE C