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Part Number: [0705410037](#)
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, 0.38µm (15µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail 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	70541
Application	Wire-to-Board
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)	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

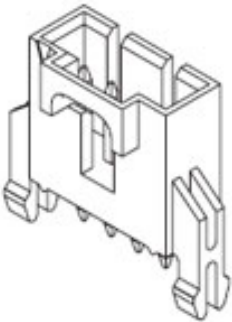


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

**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.

China RoHS



Search Parts in this Series

[70541Series](#)

Mates With

SL™ Crimp Housing [70066](#) , [70430](#) , [70400](#)

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)	3
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

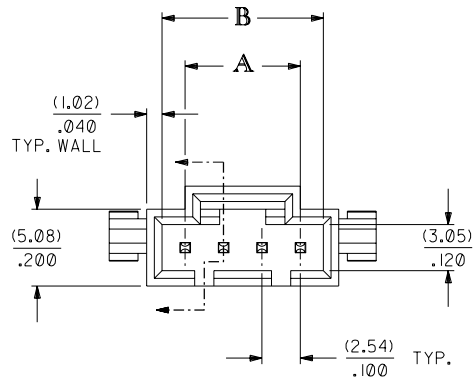
Reference - Drawing Numbers

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

This document was generated on 05/24/2010

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SL VERTICAL HEADER
W/LATCH & SPLIT PEGS



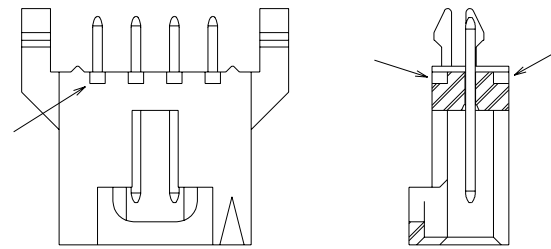
NOTES:

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.

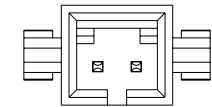
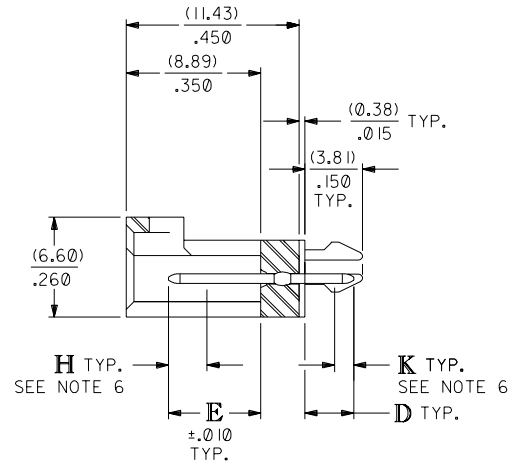
PLATING:

- 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.

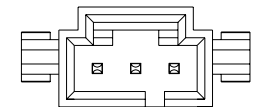
*THE PRIMARY SHIPPING CARTON WILL BE LABELED *COMPLIANT TO
ROHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC.
CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH LEAD.



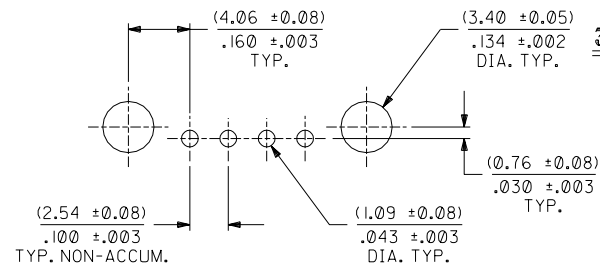
ALTERNATIVE CORING MANUFACTURER'S OPTION



2 CIRCUIT



3 CIRCUIT



RECOMMENDED PC BOARD LAYOUT

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

		ADDED TOLERANCES PER UDT2001-0723 JRWILLIAMS 01/04/26		DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°		▽ = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM	
		MODIFIED HOUSING MATERIAL CALLOUT ECN# UDT1999-0869 DMORGAN 99/04/23		INCH 3 PLACE ±.005 2 PLACE ±.01 ±0.13 1 PLACE ±0.25		METRIC 3 PLACE ±.005 2 PLACE ±.01 ±0.13 1 PLACE ±0.25	
		ADD -0178 ECR U7-1280 MCFARLAN 97/4/23		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		FILE NAME S70541X1	
LTR.		REVISIONS		DRWG. BY AAB		CHK'D. BY MJM	
				APP'D. BY WAZ		SCALE 4 : 1	
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
						DATE 09/22/87	
						SHEET NO. 1 OF 2	
						PART NO. SDA-70541-****	
						REV. SIZE DA C	

		13		12		11		10		9		8		7		6		70541		4		3		2		1							
J	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER 70541		MANUFACTURE RELEASE STATUS								D REF.	E ± .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										(3.30) .130	(6.10) .240		15 GOLD	(2.54) .100		TIN	(1.27) .050														
	2-10	-0036-0044		R.F.M.								(3.30) .130	(6.10) .240		30 GOLD	(2.54) .100		TIN	(1.27) .050														
	11-25	-0045-0059										(3.30) .130	(6.10) .240																				
H	2-10	-0071-0079		R.F.M.								(3.30) .130	(6.10) .240																				
	11-25	-0080-0094																															
G																																	
	2-10	-0176-0184		R.F.M.								(3.30) .130	(6.10) .240		TIN	(2.54) .100		TIN	(1.27) .050														
F																																	
	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER			ASSEMBLY ITEM NUMBER			ASSEMBLY ITEM NUMBER			ASSEMBLY ITEM NUMBER			ASSEMBLY ITEM NUMBER			ASSEMBLY ITEM NUMBER																
E	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																						
D	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																						
C	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																						
B	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																						
A	*X* IN COLUMN UNDER *ASSEMBLY ITEM NUMBER *HEADING DENOTES TOOLING NOT AVAILABLE																																
												LTR.	REVISIONS				LTR.	REVISIONS				DIMENSIONS SHOWN (METRIC) INCH		▽ = 0 ▼ = 0		REVISE ONLY ON CAD SYSTEM							