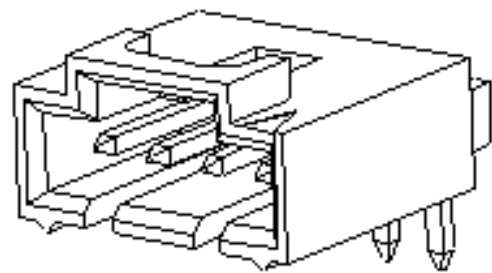


PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0705530007](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch SL™ Header, Low Profile, Single Row, Right Angle, .120" Pocket, Shrouded, 8 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating



Series

image - Reference only

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	70553
Application	Wire-to-Board
Overview	cgrid_sl_products
Product Name	SL™

Physical

Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
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	Right Angle
PC Tail Length (in)	0.130 In
PC Tail Length (mm)	3.30 mm
PCB Locator	No
PCB Retention	None
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
Temperature Range - Operating	-40°C to +105°C

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

[70553Series](#)

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

1

Process Temperature max. C

260

Material Info

Reference - Drawing Numbers

Packaging Specification

PK-70873-0015

Product Specification

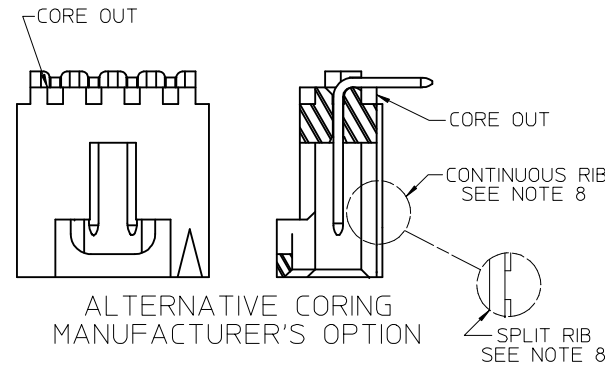
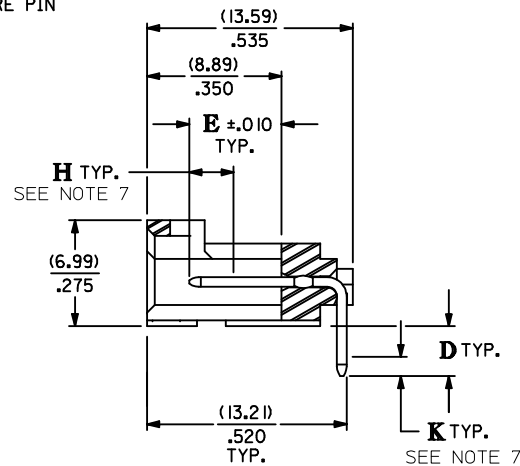
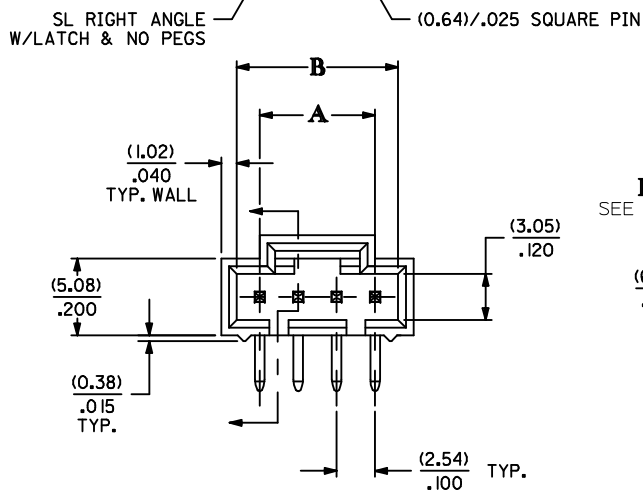
PS-70400, PS-70541

Sales Drawing

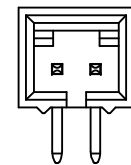
SDA-70553-****

This document was generated on 05/27/2010

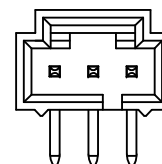
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



CKT. SIZE	DIM. "A"		DIM. "B"	
	MM	IN.	MM	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
11	25.40	1.000	28.45	1.120
12	27.94	1.100	30.99	1.220
13	30.48	1.200	33.53	1.320
14	33.02	1.300	36.07	1.420
15	35.56	1.400	38.61	1.520
16	38.10	1.500	41.15	1.620
17	40.64	1.600	43.69	1.720
18	43.18	1.700	46.23	1.820
19	45.72	1.800	48.77	1.920
20	48.26	1.900	51.31	2.020
21	50.80	2.000	53.85	2.120
22	53.34	2.100	56.39	2.220
23	55.88	2.200	58.93	2.320
24	58.42	2.300	61.47	2.420
25	60.96	2.400	64.01	2.520

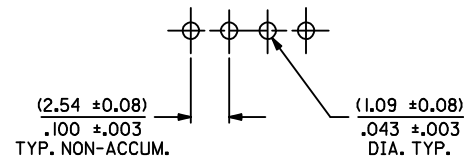


2 CIRCUIT



3 CIRCUIT

- NOTES:
- HEADER MATERIAL: GLASS FILLED POLYESTER, UL 94V-0, COLOR: BLACK
PIN MATERIAL: PHOSPHOR BRONZE
 - FINISH:
TIN: 3.81 MICROMETERS/150 MICROINCHES MINIMUM TIN PLATE OVERALL
OVER NICKEL UNDERPLATE OVERALL
15 GOLD: 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN CONTACT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN TAIL AREA
OVER NICKEL UNDERPLATE OVERALL
30 GOLD: 0.76 MICROMETERS/30 MICROINCHES MINIMUM GOLD PLATE IN CONTACT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM TIN PLATE IN TAIL AREA
OVER NICKEL UNDERPLATE OVERALL
 - HEADER TO BE USED WITH OPTION "G" 70400 AND 70430 SERIES SL CONNECTORS
 - REFER TO MOLEX PRODUCT SPECIFICATION PS-70541 & PS-70400
 - STANDARD PACKAGING IN TUBES PER PK-70873-0015 OR
OPTIONAL PACKAGING IN BAGS PER PK-70873-0535.
OPTION PACK NOT AVAILABLE FOR ALL CKT SIZES.
 - DIMENSIONS WITHOUT TOLERANCE ARE SHOWN FOR REFERENCE ONLY.
 - MEASURE POINT FOR PLATING THICKNESS
 - ALTERNATIVE RIB, MAY BE SPLIT OR CONTINUOUS. EITHER OPTION DOES NOT IMPACT FUNCTION OF THE ASSEMBLY.



RECOMMENDED PC BOARD LAYOUT
(FOR USE WITH (1.57) .062 THICK BOARD)

ADD RIB NOTE 8 EC NO: UCP2010-0787 DRWN:SBARRA 2009/09/24 CHKD:DMORGAN 2009/10/02 APPR:SMILLER 2009/10/05	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION			
						MM/IN		4:1	INCH				
				 =0  =0  =0	4 PLACES	mm	INCH	DRAWN BY	DATE		TITLE	SALES ASSY, SL RIGHT ANGLE HDR W/LATCH (2.54) .100 CENTERS	
						± ---	± ---	AAB	1993/05/13				
						3 PLACES	± ---	± .005	CHECKED BY				DATE
						2 PLACES	± 0.13	± .010	AAB				1993/05/13
						1 PLACE	± 0.25	± ---	APPROVED BY				DATE
				ANGULAR ±1/2°		WAZ	1993/05/13	 MOLEX INCORPORATED					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
					SEE TABLE		SDA-70553-****		1 OF 3				
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	ENGINEERING NUMBER A-70553	MANUFACTURE RELEASE STATUS					D REF.	E ± .010	PLATING TYPE	CONNECTOR END PLATING			P.C. BOARD END PLATING			SEE PACK INFORMA. DRAWING PK-70873								
											TYPE	H MEAS.		TYPE	K MEAS.										
	2-10	-0001-0009	R.F.M.					(3.30) .130	(6.10) .240	15 GOLD	GOLD	(2.54) .100		TIN	(1.27) .050		-0015 (TUBES)								
I	11-25	-0010-0024	R.F.M.																						
	2-10	-0036-0044	R.F.M.					(3.30) .130	(6.10) .240	TIN	TIN	(2.54) .100		TIN	(1.27) .050		-0015 (TUBES)								
H	11-25	-0045-0059	R.F.M.																						
	2-10	-0106-0114	R.F.M.					(3.30) .130	(6.10) .240	30 GOLD	GOLD	(2.54) .100		TIN	(1.27) .050		-0015 (TUBES)								
G	11-25	-0115-0129	R.F.M.																						
	2-10	-0141-0149	R.F.M.					(2.67) .105	(6.10) .240	15 GOLD	GOLD	(2.54) .100		TIN	(1.27) .050		-0015 (TUBES)								
F	11-25	-0150-01IN	R.F.M.																						
	2-10																								
E	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER													
	2		70553-0001		70553-0036		70553-0106		70553-0141																
	3		70553-0002		70553-0037		70553-0107		70553-0142																
	4		70553-0003		70553-0038		70553-0108		70553-0143																
	5		70553-0004		70553-0039		70553-0109		70553-0144																
	6		70553-0005		70553-0040		70553-0110		70553-0145																
	7		70553-0006		70553-0041		70553-0111		70553-0146																
	8		70553-0007		70553-0042		70553-0112		70553-0147																
	9		70553-0008		70553-0043		70553-0113		70553-0148																
	10		70553-0009		70553-0044		70553-0114		70553-0149																
	11		70553-0010		70553-0045		70553-0115		70553-0150																
	12		70553-0011		70553-0046		70553-0116		70553-0151																
	13		70553-0012		70553-0047		70553-0117		70553-0152																
	14		70553-0013		70553-0048		70553-0118		70553-0153																
	15		70553-0014		70553-0049		70553-0119		70553-0154																
	16		70553-0015		70553-0050		70553-0120		70553-0155																
	17		70553-0016		70553-0051		70553-0121		70553-0156																
	18		70553-0017		70553-0052		70553-0122		70553-0157																
	19		70553-0018		70553-0053		70553-0123		70553-0158																
	20		70553-0019		70553-0054		70553-0124		70553-0159																
	21		70553-0020		70553-0055		70553-0125		70553-0160																
	22		70553-0021		70553-0056		70553-0126		70553-0161																
	23		70553-0022		70553-0057		70553-0127		70553-0162																
	24		70553-0023		70553-0058		70553-0128		70553-0163																
	25		70553-0024		70553-0059		70553-0129		70553-0164																
"X" IN COLUMN UNDER "ASSEMBLY ITEM NUMBER " HEADING DENOTES TOOLING NOT AVAILABLE																									
B																									
A																									

UPDATE REV LEVEL EC NO: UCP2010-0787 DRWN:MSBARRA 2009/09/24 CHKD:MORGAN 2009/10/02 APPR:SMILLER 2009/10/05	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
				4 PLACES	± ---	± ---	DRAWN BY AAB	DATE 1993/05/13	TITLE SALES ASSY, SL RIGHT ANGLE HDR W/LATCH (2.54)/.100 CENTERS				
					3 PLACES	± ---	±.005	CHECKED BY AAB		DATE 1993/05/13			
				2 PLACES	± 0.13	±.010	APPROVED BY WAZ	DATE 1993/05/13	MOLEX MOLEX INCORPORATED				
				1 PLACE	± 0.25	± ---	MATERIAL NO. SEE TABLE	DOCUMENT NO. SDA-70553-****		SHEET NO. 2 OF 3			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

tb_frame_C_P_AM_T Rev. F 2009/06/18	12	11	10	9	8	7	6	5	4	3	2	1
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13		12		11		10		9		8		7		6		5		4		3		2		1	
J	CIRCUIT SIZE	ENGINEERING NUMBER A-70553		MANUFACTURE RELEASE STATUS								D REF.	E ± .010	PLATING TYPE		CONNECTOR END PLATING			P.C. BOARD END PLATING			SEE PACK INFORMA. DRAWING PK-70873			
														TYPE	H MEAS.		TYPE	K MEAS.							
	2-10	-5001-5009										(3.30) .130	(6.10) .240	15 GOLD		GOLD	(2.54) .100		TIN	(1.27) .050		-0535 (BACS)			
I	2-10	-5036-5044		R.F.M.								(3.30) .130	(6.10) .240	TIN		TIN	(2.54) .100		TIN	(1.27) .050		-0535 (BACS)			
	2-10	-6001-6009		R.F.M.								(3.30) .130	(6.10) .240	15 GOLD		GOLD	(2.54) .100		TIN	(1.27) .050		-0015 (TUBES)			
H	2-10																								
G	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER											
	2	X	70553-5001		70553-5036																				
	3	X	70553-5002	X	70553-5037		70553-6002																		
	4	X	70553-5003		70553-5038																				
	5	X	70553-5004	X	70553-5039																				
	6	X	70553-5005	X	70553-5040																				
	7	X	70553-5006	X	70553-5041																				
F	8	X	70553-5007	X	70553-5042																				
	9	X	70553-5008	X	70553-5043																				
	10	X	70553-5009	X	70553-5044																				
E																									
D																									
C	"X" IN COLUMN UNDER "ASSEMBLY ITEM NUMBER " HEADING DENOTES TOOLING NOT AVAILABLE																								
B																									
A																									
UPDATE REV LEVEL EC NO: UCP2010-0787 DRWN:MSI BARRA 2009/09/24 CHKD:JMORGAN 2009/10/02 APPR:SMILLER 2009/10/05 REV I QUALITY SYMBOLS ▽=0 ▽=0 ▽=0 GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .010 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM/IN DRAWN BY AAB DATE 1993/05/13 CHECKED BY AAB DATE 1993/05/13 APPROVED BY WAZ DATE 1993/05/13 MATERIAL NO. SEE TABLE SIZE C SCALE 4:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION TITLE SALES ASSY, SL RIGHT ANGLE HDR W/LATCH (2.54)/.100 CENTERS  MOLEX INCORPORATED DOCUMENT NO. SDA-70553-**** SHEET NO. 3 OF 3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																									
tb_frame_C_P_AM_T Rev. F 2009/06/18		12		11		10		9		8		7		6		5		4		3		2		1	