

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0705430055

Status:

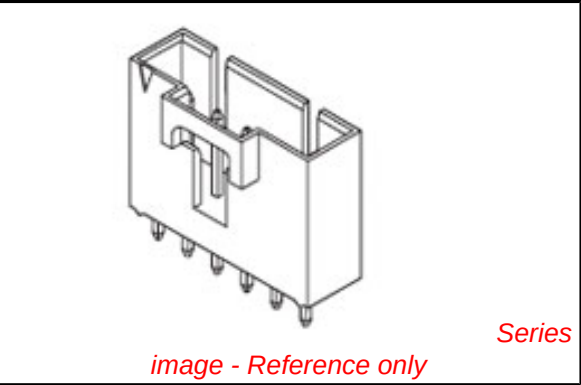
Active

Overview:

cgrid_sl_products

Description:

2.54mm (.100") Pitch SL™ Header, Single Row, Vertical, .120" Pocket, Shrouded, 21 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	70543
Application	Wire-to-Board
Overview	cgrid_sl_products
Product Name	SL™
Physical	
Breakaway	No
Circuits (Loaded)	21
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	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
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. 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

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

70543Series

Stackable	No
Surface Mount Compatible (SMC)	No
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

Lead-free Process Capability	Wave Capable (TH only)
------------------------------	------------------------

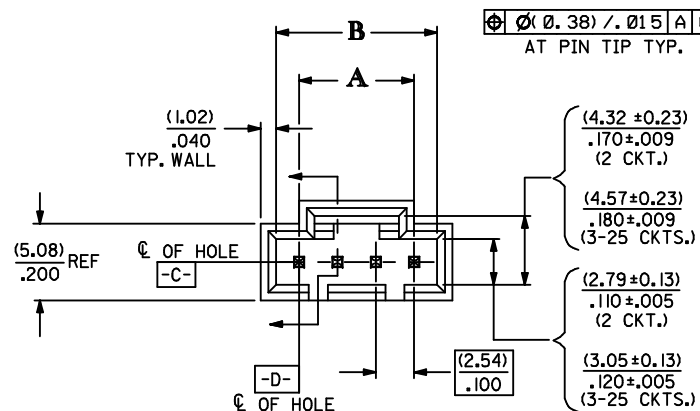
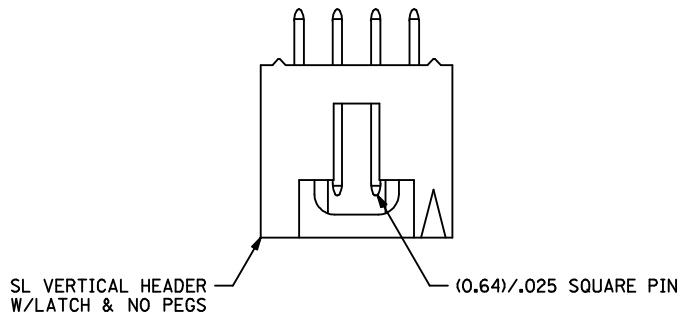
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-0014
Product Specification	PS-70400, PS-70541
Sales Drawing	SDA-70543-****

This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



NOTES:

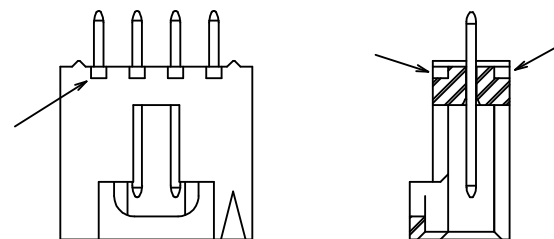
1. HEADER MATERIAL: GLASS FILLED POLYESTER;
UL94V-0; COLOR: BLACK
PIN MATERIAL: PHOSPHOR BRONZE
2. HEADER TO BE USED WITH OPTION 'G' 70400 AND 70430
SERIES SL CONNECTORS.
3. REFER TO MOLEX PRODUCT SPECIFICATION PS-70541.
4. STANDARD PACKAGING PER PK-70873-0014.
5. MEASURE POINT FOR PLATING THICKNESS.

PLATING:

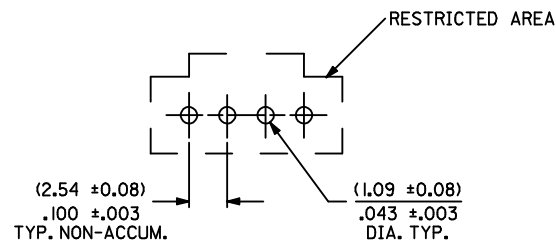
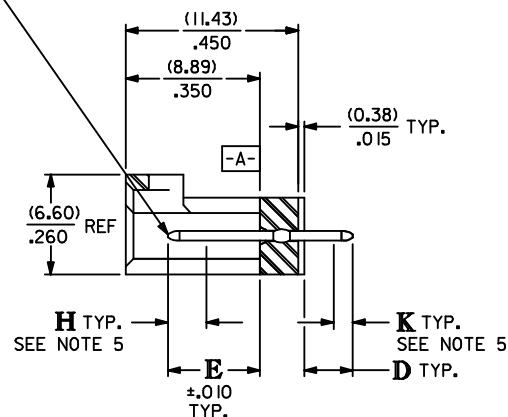
TIN - 3.81 MICROMETERS/150 MICROINCHES MINIMUM BRIGHT TIN PLATE
OVER 1.27 MICROMETERS/50 MICROINCHES MINIMUM NICKEL PLATE

15 GOLD - 0.38 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM MATTE TIN PLATE IN SELECT AREA
OVER 1.27 MICROMETERS/50 MICROINCHES MINIMUM NICKEL PLATE OVERALL

30 GOLD - 0.76 MICROMETERS/15 MICROINCHES MINIMUM GOLD PLATE IN SELECT AREA
1.91 MICROMETERS/75 MICROINCHES MINIMUM MATTE TIN PLATE IN SELECT AREA
OVER 1.27 MICROMETERS/50 MICROINCHES MINIMUM NICKEL PLATE OVERALL



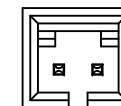
ALTERNATIVE CORING MANUFACTURER'S OPTION



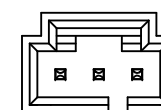
RECOMMENDED PC BOARD LAYOUT

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

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

ADD PLATING FINISH EC NO: UCP2009-1566 DRWN:MS BARRA 2008/12/17 CHKD:DMORGAN 2008/12/17 APPR:SMILLER 2008/12/18	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY AAB	DATE 1987/09/22	TITLE SALES ASSY, SL VERTICAL HEADER W/LATCH & NO PEGS (2.54)/.100 CENTERS MOLEX MOLEX INCORPORATED			
			4 PLACES	± .005	± .005	CHECKED BY MJM	DATE 1987/09/22				
			3 PLACES	± .010	± .010	APPROVED BY WAZ	DATE 1987/09/22				
			2 PLACES	± .025	± .025	MATERIAL NO. SEE TABLE				DOCUMENT NO. SDA-70543-****	SHEET NO. 1 OF 2
			1 PLACE	± .050	± .050	SIZE (THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						

13		12		11		10		9		8		7		6		5		4		3		2		1								
J	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER 70543		MANUFACTURE RELEASE STATUS						D REF.		E ± .010				CONNECTOR END PLATING			P.C. BOARD END PLATING													
																TYPE	H MEAS.		TYPE	FINISH	K MEAS.											
	2-25	-0001-0024		R.F.M.						(3.30) .130		(6.10) .240				15 GOLD			(2.54) .100			TIN			MATTE		(1.27) .050					
	2-25	-0036-0059		R.F.M.						(3.30) .130		(6.10) .240				TIN			(2.54) .100			TIN			BRIGHT		(1.27) .050					
I	2-25	-0071-0094		R.F.M.						(3.81) .150		(6.10) .240				TIN			(2.54) .100			TIN			BRIGHT		(1.27) .050					
	2-25	-0106-0129		R.F.M.						(3.30) .130		(6.10) .240				30 GOLD			(2.54) .100			TIN			MATTE		(1.27) .050					
	2-25	-0141-0164		R.F.M.						(2.54) .100		(6.10) .240				15 GOLD			(3.94) .155			TIN			MATTE		(1.27) .050					
H	2-25	-0165-0188		R.F.M.						(3.81) .150		(6.10) .240				30 GOLD			(2.54) .100			TIN			MATTE		(1.27) .050					
	2-25	-0200-0223		R.F.M.						(3.81) .150		(6.10) .240				15 GOLD			(2.54) .100			TIN			MATTE		(1.27) .050					
	2-25	-0248-0271		R.F.M.						(4.06) .160		(6.10) .240				TIN			(2.54) .100			TIN			BRIGHT		(1.27) .050					
G	2-25	-0272-0295		R.F.M.						(4.06) .160		(6.10) .240				15 GOLD			(2.54) .100			TIN			MATTE		(1.27) .050					
	2-25	-0296-0319		R.F.M.						(4.06) .160		(6.10) .240				30 GOLD			(2.54) .100			TIN			MATTE		(1.27) .050					
F	CIRCUIT SIZE	ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		ASSEMBLY ITEM NUMBER		CIRCUIT SIZE								
	2		70543-0001		70543-0036		70543-0071		70543-0106		70543-0141		70543-0165		70543-0200		70543-0248		70543-0272		70543-0296		2									
	3		70543-0002		70543-0037		70543-0072		70543-0107		70543-0142		70543-0166		70543-0201		70543-0249		70543-0273		70543-0297		3									
	4		70543-0003		70543-0038		70543-0073		70543-0108		70543-0143		70543-0167		70543-0202		70543-0250		70543-0274		70543-0298		4									
	5		70543-0004		70543-0039		70543-0074		70543-0109		70543-0144		70543-0168		70543-0203		70543-0251		70543-0275		70543-0299		5									
	6		70543-0005		70543-0040		70543-0075		70543-0110		70543-0145		70543-0169		70543-0204		70543-0252		70543-0276		70543-0300		6									
E	7		70543-0006		70543-0041		70543-0076		70543-0111		70543-0146		70543-0170		70543-0205		70543-0253		70543-0277		70543-0301		7									
	8		70543-0007		70543-0042		70543-0077		70543-0112		70543-0147		70543-0171		70543-0206		70543-0254		70543-0278		70543-0302		8									
	9		70543-0008		70543-0043		70543-0078		70543-0113		70543-0148		70543-0172		70543-0207		70543-0255		70543-0279		70543-0303		9									
	10		70543-0009		70543-0044		70543-0079		70543-0114		70543-0149		70543-0173		70543-0208		70543-0256		70543-0280		70543-0304		10									
	11		70543-0010		70543-0045		70543-0080		70543-0115		70543-0150		70543-0174		70543-0209		70543-0257		70543-0281		70543-0305		11									
	12		70543-0011		70543-0046		70543-0081		70543-0116		70543-0151		70543-0175		70543-0210		70543-0258		70543-0282		70543-0306		12									
D	13		70543-0012		70543-0047		70543-0082		70543-0117		70543-0152		70543-0176		70543-0211		70543-0259		70543-0283		70543-0307		13									
	14		70543-0013		70543-0048		70543-0083		70543-0118		70543-0153		70543-0177		70543-0212		70543-0260		70543-0284		70543-0308		14									
	15		70543-0014		70543-0049		70543-0084		70543-0119		70543-0154		70543-0178		70543-0213		70543-0261		70543-0285		70543-0309		15									
	16		70543-0015		70543-0050		70543-0085		70543-0120		70543-0155		70543-0179		70543-0214		70543-0262		70543-0286		70543-0310		16									
	17		70543-0016		70543-0051		70543-0086		70543-0121		70543-0156		70543-0180		70543-0215		70543-0263		70543-0287		70543-0311		17									
	18		70543-0017		70543-0052		70543-0087		70543-0122		70543-0157		70543-0181		70543-0216		70543-0264		70543-0288		70543-0312		18									
	19		70543-0018		70543-0053		70543-0088		70543-0123		70543-0158		70543-0182		70543-0217		70543-0265		70543-0289		70543-0313		19									
C	20		70543-0019		70543-0054		70543-0089		70543-0124		70543-0159		70543-0183		70543-0218		70543-0266		70543-0290		70543-0314		20									
	21		70543-0020		70543-0055		70543-0090		70543-0125		70543-0160		70543-0184		70543-0219		70543-0267		70543-0291		70543-0315		21									
	22		70543-0021		70543-0056		70543-0091		70543-0126		70543-0161		70543-0185		70543-0220		70543-0268		70543-0292		70543-0316		22									
	23		70543-0022		70543-0057		70543-0092		70543-0127		70543-0162		70543-0186		70543-0221		70543-0269		70543-0293		70543-0317		23									
	24		70543-0023		70543-0058		70543-0093		70543-0128		70543-0163		70543-0187		70543-0222		70543-0270		70543-0294		70543-0318		24									
	25		70543-0024		70543-0059		70543-0094		70543-0129		70543-0164		70543-0188		70543-0223		70543-0271		70543-0295		70543-0319		25									
B	*X* IN COLUMN UNDER *ASSEMBLY ITEM NUMBER* HEADING DENOTES TOOLING NOT AVAILABLE										ADD PLATING FINISH EC NO: UCP2009-1566 DRWN:MS BARRA 2008/12/17 CHKD:DMORGAN 2008/12/17 APPR:SMILLER 2008/12/18		REV J	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1		DESIGN UNITS INCH		THIRD ANGLE PROJECTION									
	mm		INCH		DRAWN BY AAB		DATE 1987/09/22		CHECKED BY MJM						DATE 1987/09/22		APPROVED BY WAZ		DATE 1987/09/22													
A														4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .010 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°		SEE TABLE		DOCUMENT NO. SDA-70543-****		SHEET NO. 2 OF 2												
													DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										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. E 2006/04/15		12		11		10		9		8		7		6		5		4		3		2		1								