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Part Number: [0705510042](#)
Status: **Active**
Overview: [C-Grid® / SL™ Products](#)
Description: 2.54mm (.100") Pitch SL™ Header, Single Row, Right Angle, .120" Pocket, Shrouded, with Beveled Plastic Peg, 8 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tin (Sn) PC Tail Plating

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	70551
Application	Wire-to-Board
Overview	C-Grid® / SL™ Products
Product Name	SL™

Physical

Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
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	Right Angle
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

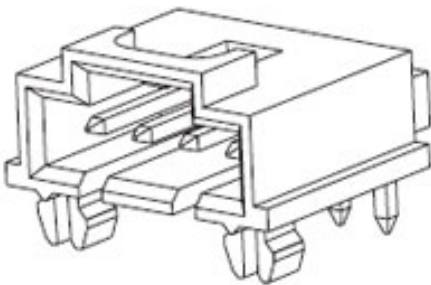


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not 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

[70551Series](#)

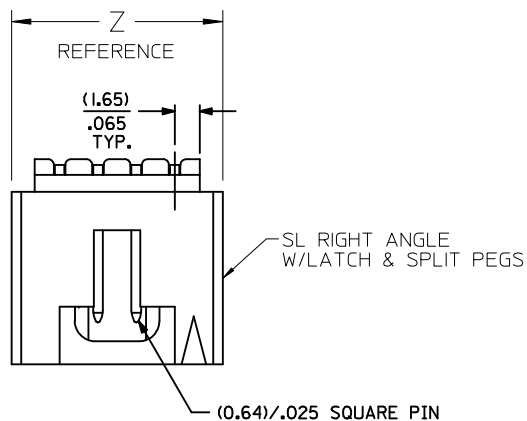
Mates With

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

Stackable	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	
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	
Product Specification	PS-70400, PS-70541
Sales Drawing	SDA-70551-****

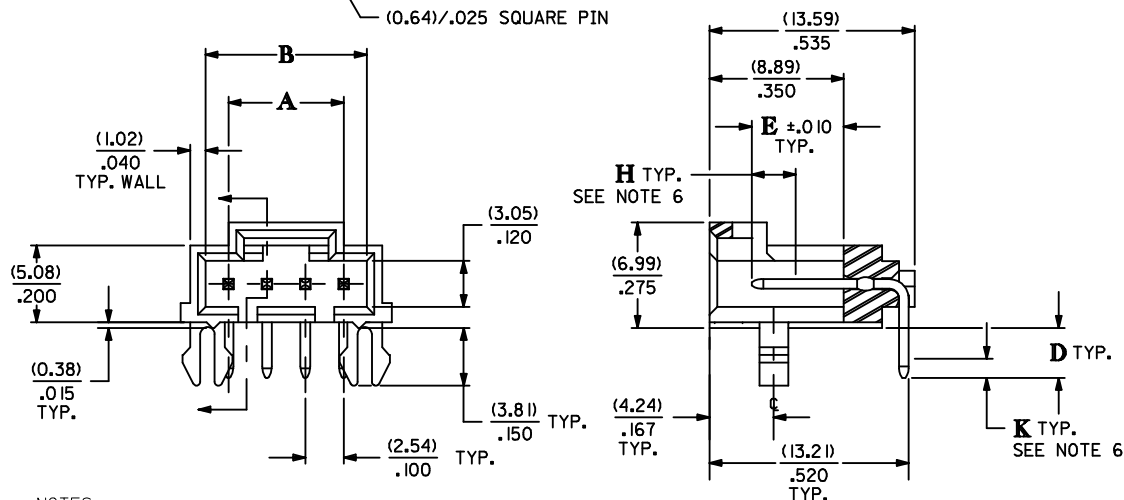
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ALTERNATIVE CORING MANUFACTURER'S OPTION

CKT. SIZE	DIM. "A"		DIM. "B"		DIM. "C"		DIM. "Z"	
	MM	IN.	MM	IN.	MM	IN.	MM	IN.
2	2.54	.100	5.33	.210	5.08	.200	8.64	.340
3	5.08	.200	8.13	.320	7.62	.300	11.43	.450
4	7.62	.300	10.67	.420	10.16	.400	13.97	.550
5	10.16	.400	13.21	.520	12.70	.500	16.51	.650
6	12.70	.500	15.75	.620	15.24	.600	19.05	.750
7	15.24	.600	18.29	.720	17.78	.700	21.59	.850
8	17.78	.700	20.83	.820	20.32	.800	24.13	.950
9	20.32	.800	23.37	.920	22.86	.900	26.67	1.050
10	22.86	.900	25.91	1.020	25.40	1.000	29.21	1.150
11	25.40	1.000	28.45	1.120	27.94	1.100	31.75	1.250
12	27.94	1.100	30.99	1.220	30.48	1.200	34.29	1.350
13	30.48	1.200	33.53	1.320	33.02	1.300	36.83	1.450
14	33.02	1.300	36.07	1.420	35.56	1.400	39.37	1.550
15	35.56	1.400	38.61	1.520	38.10	1.500	41.91	1.650
16	38.10	1.500	41.15	1.620	40.64	1.600	44.45	1.750
17	40.64	1.600	43.69	1.720	43.18	1.700	46.99	1.850
18	43.18	1.700	46.23	1.820	45.72	1.800	49.53	1.950
19	45.72	1.800	48.77	1.920	48.26	1.900	52.07	2.050
20	48.26	1.900	51.31	2.020	50.80	2.000	54.61	2.150
21	50.80	2.000	53.85	2.120	53.34	2.100	57.15	2.250
22	53.34	2.100	56.39	2.220	55.88	2.200	59.69	2.350
23	55.88	2.200	58.93	2.320	58.42	2.300	62.23	2.450
24	58.42	2.300	61.47	2.420	60.96	2.400	64.77	2.650
25	60.96	2.400	64.01	2.520	63.50	2.500	67.31	2.750

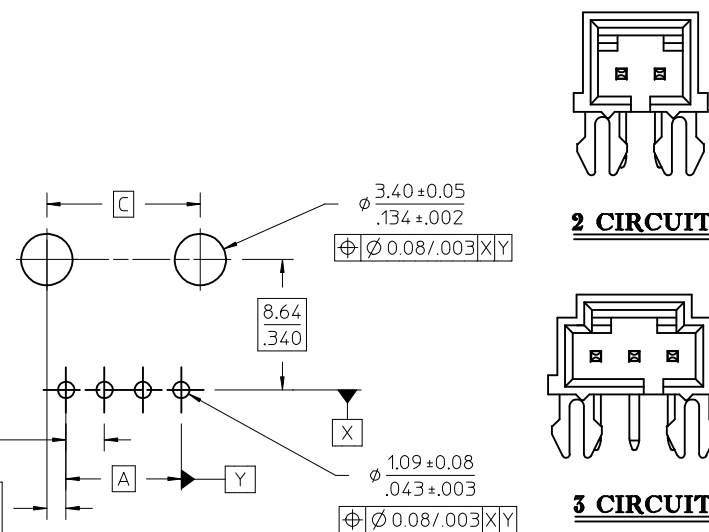


NOTES:

1. MATERIAL:
HOUSING: 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-70873-0015
5. DIMENSIONS WITHOUT TOLERANCE ARE SHOWN FOR
REFERENCE ONLY
6. MEASURE POINT FOR PLATING THICKNESS

PLATING CODES:

- TIN - 3.81 MICROMETERS/15 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



RECOMMENDED P.C. BOARD LAYOUT

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

ADD DIMENSION "Z" EC NO: UCP2010-1081 DRWN:MS BARRA 2009/10/26 CHKD: 2009/11/09 APPR:SMILLER 2009/11/09	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS INCH	THIRD ANGLE PROJECTION 		
				mm	INCH	DRAWN BY AAB	DATE 1993/05/13	TITLE SL RIGHT ANGLE HEADER W/LATCH & SPLIT PEGS (2.54)/.100 CENTERS  MOLEX INCORPORATED			
			4 PLACES	± ---	± ---	CHECKED BY AAB	DATE 1993/05/13				
			3 PLACES	± ---	± .005	APPROVED BY WAZ	DATE 1993/05/13				
			2 PLACES	± 0.13	± .010	MATERIAL NO. SEE TABLE					
			1 PLACE	± 0.25	± ---						
			ANGULAR ±1/2°								
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								

	13		12		11		10		9		8		7		6		5		4		3		2		1		
J	ENGINEERING NUMBER A-70551		MANUFACTURE RELEASE STATUS								D	E			CONNECTOR END PLATING			P.C. BOARD END PLATING									
															TYPE	H MEAS.		TYPE	K MEAS.								
	-0001-0024		R.F.M.								(3,30) .130	(6,10) .240			TIN	(2,54) .100		TIN	(1,27) .050								
	-0036-0059		R.F.M.								(3,30) .130	(6,10) .240			15 GOLD	(2,54) .100		TIN	(1,27) .050								
I	-0071-0094		R.F.M.								(3,30) .130	(6,10) .240			30 GOLD	(2,54) .100		TIN	(1,27) .050								
H																											
G	CKTS	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	ITEM NUMBER	CKTS																	
	02	705-51-0001	705-51-0036	705-51-0071						02																	
	03	705-51-0002	705-51-0037	705-51-0072						03																	
	04	705-51-0003	705-51-0038	705-51-0073						04																	
	05	705-51-0004	705-51-0039	705-51-0074						05																	
F	06	705-51-0005	705-51-0040	705-51-0075						06																	
	07	705-51-0006	705-51-0041	705-51-0076						07																	
	08	705-51-0007	705-51-0042	705-51-0077						08																	
	09	705-51-0008	705-51-0043	705-51-0078						09																	
	10	705-51-0009	705-51-0044	705-51-0079						10																	
E	11	705-51-0010	705-51-0045	705-51-0080						11																	
	12	705-51-0011	705-51-0046	705-51-0081						12																	
	13	705-51-0012	705-51-0047	705-51-0082						13																	
	14	705-51-0013	705-51-0048	705-51-0083						14																	
	15	705-51-0014	705-51-0049	705-51-0084						15																	
D	16	705-51-0015	705-51-0050	705-51-0085						16																	
	17	705-51-0016	705-51-0051	705-51-0086						17																	
	18	705-51-0017	705-51-0052	705-51-0087						18																	
	19	705-51-0018	705-51-0053	705-51-0088						19																	
	20	705-51-0019	705-51-0054	705-51-0089						20																	
C	21	705-51-0020	705-51-0055	705-51-0090						21																	
	22	705-51-0021	705-51-0056	705-51-0091						22																	
	23	705-51-0022	705-51-0057	705-51-0092						23																	
	24	705-51-0023	705-51-0058	705-51-0093						24																	
	25	705-51-0024	705-51-0059	705-51-0094						25																	
B											QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		SL RIGHT ANGLE HEADER W/LATCH & SPLIT PEGS (2.54)/.100 CENTERS						
											▽=0 ▽=0	4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .010 1 PLACE ± 0.25 ± --- ANGULAR ± 1/2°	DRAWN BY AAB CHECKED BY AAB APPROVED BY WAZ	DATE 1993/05/13 DATE 1993/05/13 DATE 1993/05/13	DOCUMENT NO. SDA-70551-****		SHEET NO. 2 OF 2										
A											SEE SHEET 1 EC NO: UCP2010-1081 DRWN:MS BARRA 2009/10/26 CHKD: 2009/11/09 APPR:SMILLER 2009/11/09	REV	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											
	1b_frame_C_P_AM_T Rev. E 2006/04/15		12		11		10		9		8		7		6		5		4		3		2		1		