

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0015453110](#)
Status: **Active**
Overview: [cgrid_sl_products](#)
Description: 2.54mm (.100") Pitch C-Grid® PCB Connector, Surface Mount, High Profile, Dual Row, Vertical, 10 Circuits

Documents:

3D Model	Product Specification PS-71395 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	E29179
UL	E29179

General

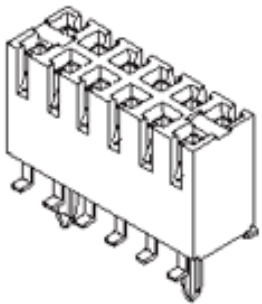
Product Family	PCB Receptacles
Series	71395
Application	Board-to-Board
Overview	cgrid_sl_products
Product Name	C-Grid®

Physical

Circuits (Loaded)	10
Color - Resin	Black
Durability (mating cycles max)	50
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	No
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.058 In
PC Tail Length (mm)	1.47 mm
PCB Locator	Yes
PCB Retention	None
Packaging Type	Tray
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 PCB	No
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2.5A
Grounding to PCB	No
Voltage - Maximum	250V



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

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

[71395Series](#)

Mates With

[8624](#) C-Grid® Breakaway Header, [70246](#)
Straight Header, [70247](#) Right Angle Header,
[70287](#) C-Grid® Header, [70227](#) Dual Row
C-Grid® Header, [70567](#) C-Grid® Header,
[70280](#) C-Grid® Breakaway Header, [70524](#)
C-Grid® Breakaway Header, [7](#)

Solder Process Data

Lead-free Process Capability	Reflow Capable (SMT only)
Process Temperature max. C	260

Material Info

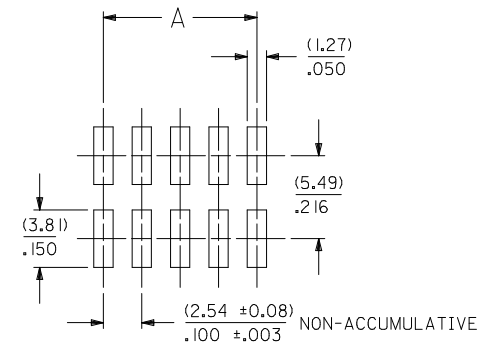
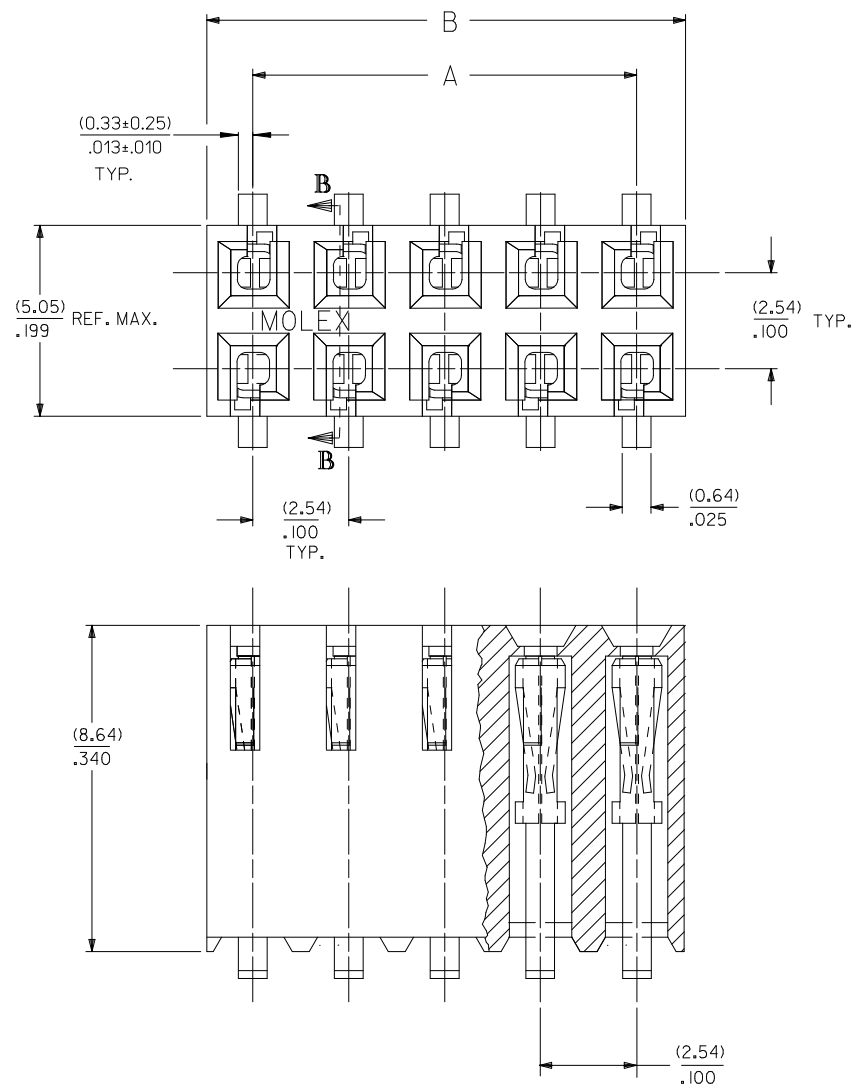
Old Part Number	A713951110
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Reference - Drawing Numbers

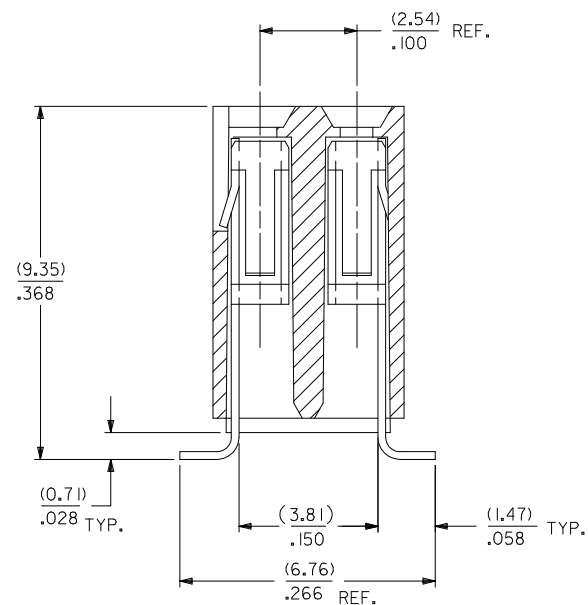
Application Specification	AS-71395-001
Packaging Specification	PK-70873-0304
Product Specification	PS-71395
Sales Drawing	SDA-71395-1***

This document was generated on 05/31/2010

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RECOMMENDED P.C. BOARD LAYOUT
SCALE: 4:1



SECTION B-B

- VERSION WITHOUT PCB RETENTION PEGS -

NOTES:

- 1 - HOUSING MATERIAL: GLASS FILLED LCP (LIQUID CRYSTAL POLYMER), UL 94V-0, COLOR: BLACK.
- 2 - TERMINAL MATERIAL: (0.20)/.008 PHOSPHOR BRONZE
- 3 - SEE SHEET 2 FOR CIRCUIT SIZES AND OVER-ALL DIMENSIONS
- 4 - PART CONFORMS TO PS-71395
- 5 - PACKAGING:
FOR TRAY PACK SEE PK-70873-0304.
FOR TAPE AND REEL PACK SEE PK-71395-001.
- 6 - PRODUCT COMPLIES WITH CLASS B OF COSMETIC SPECIFICATION PS-45499-002.

ADD 71395-5040 EC NO: UCP2010-1001 Z DRWN:MSI BARRA 2009/10/14 CHKD:DMORGAN 2009/12/01 APPR:SMILLER 2009/12/01 REV	DESCRIPTION	QUALITY SYMBOLS F =0 E =0 F =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY	DATE	TITLE CONNECTOR DUAL ROW VERTICAL SURFACE MOUNT TOP ENTRY ON .100 GRID		
			4 PLACES	± ---	± ---	CHECKED BY	DATE			
			3 PLACES	± ---	± .010	RB	1985/12/03			
				2 PLACES	± 0.25	± .014	APPROVED BY	DATE	MOLEX INCORPORATED	
				1 PLACE	± 0.35	± ---	ANGULAR ±1/2°			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO. SDA-71395-1***		SHEET NO. 1 OF 3	
							SIZE C 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		
	- VERSION WITHOUT PCB RETENTION PEGS -														
J	NO. OF CKTS.		TIN PLATING			15 GOLD PLATING			30 GOLD PLATING						J
	PER ROW	TOTAL	E.D.P. NO.	ENG. NO.	TRAY PACKAGING	E.D.P. NO.	ENG. NO.	TRAY PACKAGING	E.D.P. NO.	ENG. NO.	TRAY PACKAGING	DIM. "A" INCH MM	DIM. "B" INCH MM	INCH MM	
	2	4	NA	AX-71395-1004	PK-70873-0304	NA	AX-71395-1104	PK-70873-0304	NA	AX-71395-1204	PK-70873-0304	.100 2,54	.199 5,05		
	3	6	71395-1006	A-71395-1006	PK-70873-0304	NA	AX-71395-1106	PK-70873-0304	NA	AX-71395-1206	PK-70873-0304	.200 5,08	.299 7,59		
I	4	8	15-45-3208	A-71395-1008	PK-70873-0304	15-45-3108	A-71395-1108	PK-70873-0304	15-45-3308	A-71395-1208	PK-70873-0304	.300 7,62	.399 10,13		
	5	10	15-45-3210	A-71395-1010	PK-70873-0304	15-45-3110	A-71395-1110	PK-70873-0304	15-45-3310	A-71395-1210	PK-70873-0304	.400 10,16	.499 12,67		
	6	12	15-45-3212	A-71395-1012	PK-70873-0304	15-45-3112	A-71395-1112	PK-70873-0304	15-45-3312	A-71395-1212	PK-70873-0304	.500 12,70	.599 15,21		
	7	14	15-45-3214	A-71395-1014	PK-70873-0304	15-45-3114	A-71395-1114	PK-70873-0304	15-45-3314	A-71395-1214	PK-70873-0304	.600 15,24	.699 17,75		
	8	16	15-45-3216	A-71395-1016	PK-70873-0304	15-45-3116	A-71395-1116	PK-70873-0304	15-45-3316	A-71395-1216	PK-70873-0304	.700 17,78	.799 20,29		
	9	18	15-45-3218	A-71395-1018	PK-70873-0304	15-45-3118	A-71395-1118	PK-70873-0304	15-45-3318	A-71395-1218	PK-70873-0304	.800 20,32	.899 22,83		
H	10	20	15-45-3220	A-71395-1020	PK-70873-0304	15-45-3120	A-71395-1120	PK-70873-0304	15-45-3320	A-71395-1220	PK-70873-0304	.900 22,86	.999 25,37		
	11	22	15-45-3222	A-71395-1022	PK-70873-0304	15-45-3122	A-71395-1122	PK-70873-0304	15-45-3322	A-71395-1222	PK-70873-0304	1.000 25,40	1.099 27,91		H
	12	24	15-45-3224	A-71395-1024	PK-70873-0304	15-45-3124	A-71395-1124	PK-70873-0304	15-45-3324	A-71395-1224	PK-70873-0304	1.100 27,94	1.199 30,45		
	13	26	15-45-3226	A-71395-1026	PK-70873-0304	15-45-3126	A-71395-1126	PK-70873-0304	15-45-3326	A-71395-1226	PK-70873-0304	1.200 30,48	1.299 32,99		
	14	28	15-45-3228	A-71395-1028	PK-70873-0304	15-45-3128	A-71395-1128	PK-70873-0304	15-45-3328	A-71395-1228	PK-70873-0304	1.300 33,02	1.399 35,53		
	15	30	15-45-3230	A-71395-1030	PK-70873-0304	15-45-3130	A-71395-1130	PK-70873-0304	15-45-3330	A-71395-1230	PK-70873-0304	1.400 35,56	1.499 38,07		
	16	32	15-45-3232	A-71395-1032	PK-70873-0304	15-45-3132	A-71395-1132	PK-70873-0304	15-45-3332	A-71395-1232	PK-70873-0304	1.500 38,10	1.599 40,61		
G	17	34	15-45-3234	A-71395-1034	PK-70873-0304	15-45-3134	A-71395-1134	PK-70873-0304	15-45-3334	A-71395-1234	PK-70873-0304	1.600 40,64	1.699 43,15		G
	18	36	15-45-3236	A-71395-1036	PK-70873-0304	15-45-3136	A-71395-1136	PK-70873-0304	15-45-3336	A-71395-1236	PK-70873-0304	1.700 43,18	1.799 45,69		
	19	38	15-45-3238	A-71395-1038	PK-70873-0304	15-45-3138	A-71395-1138	PK-70873-0304	15-45-3338	A-71395-1238	PK-70873-0304	1.800 45,72	1.899 48,23		
	20	40	15-45-3240	A-71395-1040	PK-70873-0304	15-45-3140	A-71395-1140	PK-70873-0304	15-45-3340	A-71395-1240	PK-70873-0304	1.900 48,26	1.999 50,77		
	21	42	15-45-3242	A-71395-1042	PK-70873-0304	15-45-3142	A-71395-1142	PK-70873-0304	15-45-3342	A-71395-1242	PK-70873-0304	2.000 50,80	2.099 53,31		
	22	44	15-45-3244	A-71395-1044	PK-70873-0304	15-45-3144	A-71395-1144	PK-70873-0304	15-45-3344	A-71395-1244	PK-70873-0304	2.100 53,34	2.199 55,85		
F	23	46	15-45-3246	A-71395-1046	PK-70873-0304	15-45-3146	A-71395-1146	PK-70873-0304	15-45-3346	A-71395-1246	PK-70873-0304	2.200 55,88	2.299 58,39		F
	24	48	15-45-3248	A-71395-1048	PK-70873-0304	15-45-3148	A-71395-1148	PK-70873-0304	15-45-3348	A-71395-1248	PK-70873-0304	2.300 58,42	2.399 60,93		
	25	50	15-45-3250	A-71395-1050	PK-70873-0304	15-45-3150	A-71395-1150	PK-70873-0304	15-45-3350	A-71395-1250	PK-70873-0304	2.400 60,96	2.499 63,47		
	26	52	15-45-3252	A-71395-1052	PK-70873-0304	15-45-3152	A-71395-1152	PK-70873-0304	15-45-3352	A-71395-1252	PK-70873-0304	2.500 63,50	2.599 66,01		
	27	54	15-45-3254	A-71395-1054	PK-70873-0304	15-45-3154	A-71395-1154	PK-70873-0304	15-45-3354	A-71395-1254	PK-70873-0304	2.600 66,04	2.699 68,55		
	28	56	15-45-3256	A-71395-1056	PK-70873-0304	15-45-3156	A-71395-1156	PK-70873-0304	15-45-3356	A-71395-1256	PK-70873-0304	2.700 68,58	2.799 71,09		
E	29	58	15-45-3258	A-71395-1058	PK-70873-0304	15-45-3158	A-71395-1158	PK-70873-0304	15-45-3358	A-71395-1258	PK-70873-0304	2.800 71,12	2.899 73,63		E
	30	60	15-45-3260	A-71395-1060	PK-70873-0304	15-45-3160	A-71395-1160	PK-70873-0304	15-45-3360	A-71395-1260	PK-70873-0304	2.900 73,66	2.999 76,17		
	31	62	15-45-3262	A-71395-1062	PK-70873-0304	15-45-3162	A-71395-1162	PK-70873-0304	15-45-3362	A-71395-1262	PK-70873-0304	3.000 76,20	3.099 78,71		
	32	64	15-45-3264	A-71395-1064	PK-70873-0304	15-45-3164	A-71395-1164	PK-70873-0304	15-45-3364	A-71395-1264	PK-70873-0304	3.100 78,74	3.199 81,25		
	33	66	15-45-3266	A-71395-1066	PK-70873-0304	15-45-3166	A-71395-1166	PK-70873-0304	15-45-3366	A-71395-1266	PK-70873-0304	3.200 81,28	3.299 83,79		
	34	68	15-45-3268	A-71395-1068	PK-70873-0304	15-45-3168	A-71395-1168	PK-70873-0304	15-45-3368	A-71395-1268	PK-70873-0304	3.300 83,82	3.399 86,33		
	35	70	15-45-3270	A-71395-1070	PK-70873-0304	15-45-3170	A-71395-1170	PK-70873-0304	15-45-3370	A-71395-1270	PK-70873-0304	3.400 86,36	3.499 88,87		
D	36	72	15-45-3272	A-71395-1072	PK-70873-0304	15-45-3172	A-71395-1172	PK-70873-0304	15-45-3372	A-71395-1272	PK-70873-0304	3.500 88,90	3.599 91,41		D
	37	74	15-45-3274	A-71395-1074	PK-70873-0304	15-45-3174	A-71395-1174	PK-70873-0304	15-45-3374	A-71395-1274	PK-70873-0304	3.600 91,44	3.699 93,95		
	38	76	15-45-3276	A-71395-1076	PK-70873-0304	15-45-3176	A-71395-1176	PK-70873-0304	15-45-3376	A-71395-1276	PK-70873-0304	3.700 93,98	3.799 96,49		
	39	78	15-45-3278	A-71395-1078	PK-70873-0304	15-45-3178	A-71395-1178	PK-70873-0304	15-45-3378	A-71395-1278	PK-70873-0304	3.800 96,52	3.899 99,03		
	40	80	15-45-3280	A-71395-1080	PK-70873-0304	15-45-3180	A-71395-1180	PK-70873-0304	15-45-3380	A-71395-1280	PK-70873-0304	3.900 99,06	3.999 101,57		
C															C
B															B
A	PLATING: TIN (3.75 MICROMETER)/50 MICROINCH MINIMUM TIN OVER (1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. 15 GOLD (0.37 MICROMETER)/15 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA; (1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER (1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. 30 GOLD (0.75 MICROMETER)/30 MICROINCH MINIMUM SELECTIVE GOLD IN THE CONTACT AREA; (1.88 MICROMETER)/75 MICROINCH MINIMUM SELECTIVE TIN IN THE PC TAIL AREA OVER (1.25 MICROMETER)/50 MICROINCH MINIMUM NICKEL OVERALL. SEE SHEET 1 EC NO: UCP2010-1001 2009/10/14 DRINKS BARRA 2009/12/01 CHKD:MORGAN 2009/12/01 APPR:SMILLER REV QUALITY SYMBOLS ▽=0 ▽=0 ▽=0 GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.35 ± --- ANGULAR ± 1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM/IN DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE MATERIAL NO. SEE CHART SIZE THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX. INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION CONNECTOR DUAL ROW VERTICAL SURFACE MOUNT TOP ENTRY ON .100 GRID  MOLEX INCORPORATED DOCUMENT NO. SDA-71395-1*** SHEET NO. 2 OF 3														A
1b_frame_C_P_AM_T Rev. F 2009/06/18	12	11	10	9	8	7	6	5	4	3	2	1			

13		12		11		10		9		8		7		6		5		4		3		2		1	
NO. OF CKTS.		TIN PLATING					15 GOLD PLATING					30 GOLD PLATING													
PER ROW	TOTAL	E.D.P. NO.	ENG. NO.	TAPE AND REEL PACKAGING		E.D.P. NO.	ENG. NO.	TAPE AND REEL PACKAGING		E.D.P. NO.	ENG. NO.	TAPE AND REEL PACKAGING		DIM. "A"		DIM. "B"									
														INCH	MM	INCH	MM	INCH	MM						
7	14	NA	NA	NA		NA	NA	NA		71395-5114	A-71395-5114	PK-71395-001		.600	15.24	.699	17.75								
8	16	NA	NA	NA		71395-5016	A-71395-5016	PK-71395-001		NA	NA	NA		.700	17.78	.799	20.29								
		NA	NA	NA		NA	NA	NA		NA	NA	NA													
10	20	NA	NA	NA		71395-5020	A-71395-5020	PK-71395-001		71395-5120	A-71395-5120	PK-71395-001		.900	22.86	.999	25.37								
20	40	NA	NA	NA		71395-5040	A-71395-5040	PK-71395-001		NA	NA	NA		1.900	48.26	1.999	50.77								
		NA	NA	NA		NA	NA	NA		NA	NA	NA													

