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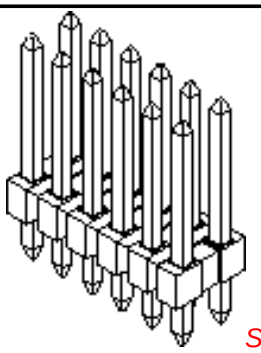
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0702871195

Status: Active

Description: 2.54mm (.100") Pitch C-Grid® Header, Breakaway, Dual Row, Vertical, with Retention Pin, 100 Circuits, 8.13mm (.320") Mating Pin Length, 0.38µm (15µ") Gold (Au) Selective Plating



Series image - Reference only

Documents:

3D Model
Packaging Specification (PDF)
Drawing (PDF)
Product Specification PS-70280 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	70287
Application	Board-to-Board, Wire-to-Board
Product Name	C-Grid®

Physical

Breakaway	Yes
Circuits (Loaded)	100
Circuits (maximum)	100
Color - Resin	Black
Durability (mating cycles max)	25
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	N/A
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.125 In
PC Tail Length (mm)	3.18 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Bag
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)	15.200
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	80.000
Plating min: Termination (µm)	2.00
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +120°C
Termination Interface: Style	Through Hole

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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
70287Series

Mates With
7859 Shunt, C-Grid Receptacles, SL™ Crimp, FFC and IDT Housing

Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	250V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

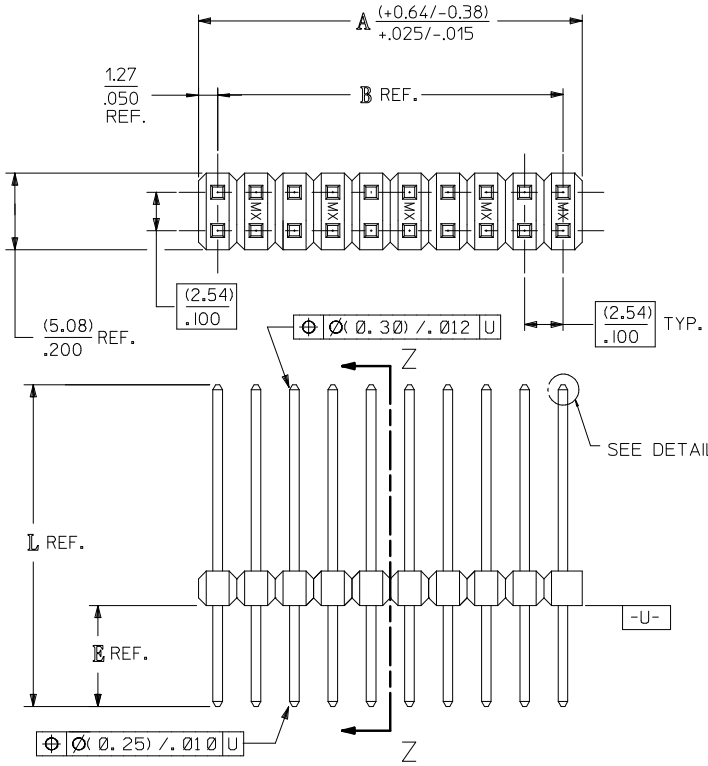
Material Info

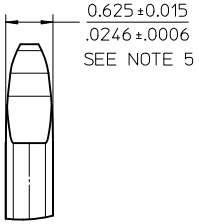
Reference - Drawing Numbers

Product Specification	PS-70280
Sales Drawing	SD-70287-003

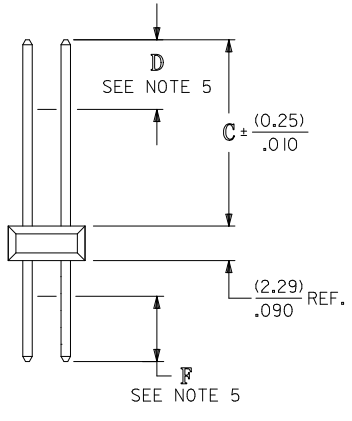
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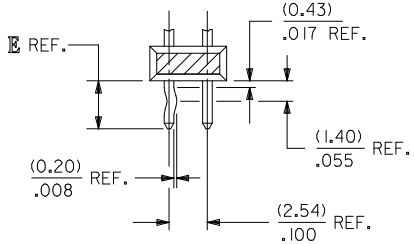
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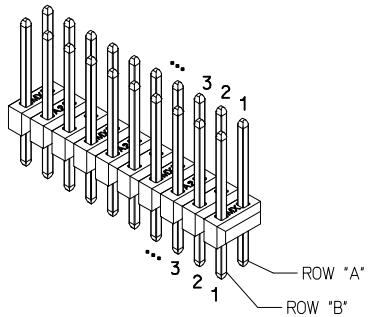


DETAIL "Y"
SCALE 30:1

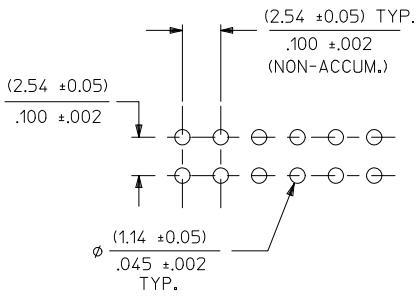




SECTION Z-Z - RETENTION PIN DETAIL
2 CONTACTS LOCATED ON CENTER OF SAME ROW
(SEE NOTE 6)



VIEW "A"



PCB LAYOUT: COMPONENT SIDE
TYPICAL PCB THICKNESS: (1.57)/.062

CKT. SIZE	DIM. A REF. (MM)	DIM. A REF. INCH	DIM. B REF. (MM)	DIM. B REF. INCH
4	(5.08)	.200	(2.54)	.100
6	(7.62)	.300	(5.08)	.200
8	(10.16)	.400	(7.62)	.300
10	(12.70)	.500	(10.16)	.400
12	(15.24)	.600	(12.70)	.500
14	(17.78)	.700	(15.24)	.600
16	(20.32)	.800	(17.78)	.700
18	(22.86)	.900	(20.32)	.800
20	(25.40)	1.000	(22.86)	.900
22	(27.94)	1.100	(25.40)	1.000
24	(30.48)	1.200	(27.94)	1.100
26	(33.02)	1.300	(30.48)	1.200
28	(35.56)	1.400	(33.02)	1.300
30	(38.10)	1.500	(35.56)	1.400
32	(40.64)	1.600	(38.10)	1.500
34	(43.18)	1.700	(40.64)	1.600
36	(45.72)	1.800	(43.18)	1.700
38	(48.26)	1.900	(45.72)	1.800
40	(50.80)	2.000	(48.26)	1.900
42	(53.34)	2.100	(50.80)	2.000
44	(55.88)	2.200	(53.34)	2.100
46	(58.42)	2.300	(55.88)	2.200
48	(60.96)	2.400	(58.42)	2.300
50	(63.50)	2.500	(60.96)	2.400
52	(66.04)	2.600	(63.50)	2.500
54	(68.58)	2.700	(66.04)	2.600
56	(71.12)	2.800	(68.58)	2.700
58	(73.66)	2.900	(71.12)	2.800
60	(76.20)	3.000	(73.66)	2.900
62	(78.74)	3.100	(76.20)	3.000
64	(81.28)	3.200	(78.74)	3.100
66	(83.82)	3.300	(81.28)	3.200
68	(86.36)	3.400	(83.82)	3.300
70	(88.90)	3.500	(86.36)	3.400
72	(91.44)	3.600	(88.90)	3.500
74	(93.98)	3.700	(91.44)	3.600
76	(96.52)	3.800	(93.98)	3.700
78	(99.06)	3.900	(96.52)	3.800
80	(101.06)	4.000	(99.06)	3.900
82	(104.14)	4.100	(101.06)	4.000
84	(106.68)	4.200	(104.14)	4.100
86	(109.22)	4.300	(106.68)	4.200
88	(111.76)	4.400	(109.22)	4.300
90	(114.30)	4.500	(111.76)	4.400
92	(116.84)	4.600	(114.30)	4.500
94	(119.38)	4.700	(116.84)	4.600
96	(121.92)	4.800	(119.38)	4.700
98	(124.46)	4.900	(121.92)	4.800
100	(127.00)	5.000	(124.46)	4.900

NOTES:

1. MATERIAL: WAFER - GLASS FILLED LIQUID CRYSTAL POLYMER, UL94V-0, COLOR: BLACK
   PIN - COPPER ALLOY
2. FINISH: (TIN) OVERALL TIN: (0.00381)/.000150 MIN.,
   OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
   (15 GOLD) SELECT GOLD: (0.00038)/.000015 MIN.,
   SELECT TIN: (0.00191)/.000075 MIN,.
   OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
   (30 GOLD) SELECT GOLD: (0.00076)/.000030 MIN.,
   SELECT TIN: (0.00191)/.000075 MIN,.
   OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
3. PRODUCT SPECIFICATION: PS-70280
4. PACKAGING INFORMATION: (UNLESS OTHERWISE NOTED IN TABLES)
   PARTS TO BE PACKAGED PER PK-70873-0353.
5. MEASURE POINT FOR PLATING THICKNESS. DIMENSION D
   IS ALSO THE MEASURE POINT FOR PIN WIDTH.
6. RETENTIVE TAIL LOCATIONS (SEE VIEW "A")

NUMBER OF CIRCUITS IN ROW B	RETENTIVE TAIL LOCATIONS
EVEN NUMBER	2 PINS IN THE MIDDLE OF ROW B
ODD NUMBER	PIN IN THE CENTER OF ROW B AND ONE OTHER PIN IN ROW B ON EITHER SIDE OF THE CENTER PIN

7. PIN PUSHOUT FORCE: 3 LBS. MIN. (IN EITHER DIRECTION)
8. FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE IS SHOWN.
9. PINS MUST MEET SOLDERABILITY SPEC. SMES-152, EXCEPT VOIDS ARE PERMISSIBLE AT BANDOLIER PIN FAYING SURFACE. (APPROXIMATELY (0.64)/.025 LNG X (0.15)/.006 WIDE AT 2 LOCATIONS)
10. PARTS CONFORM TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

PARTS LISTED ON THIS DRAWING REPLACE PARTS LISTED ON DRAWING SDA-70287-0001-5000 WHICH WILL BECOME OBSOLETE.

2-*	B1
1	B1
SHT.	REV.

REMOVE PART #'S
EC NO: UCP2010-0011 2010/02/12
DRWN:MKIPPER 2010/02/15
CHKD:JBELL 2010/03/02
APPR:FSMITH 2010/03/02
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .01
1 PLACE	± 0.25	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY	ADERR	DATE 2006/09/01
CHECKED BY	LSCHMIDT	DATE 2006/09/01
APPROVED BY	FSMITH	DATE 2006/09/05

TITLE: SALES ASSY-HIGH TEMP. DUAL ROW, .025" SQ PINS .100" GRID W/ RET. PINS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-70287-003
SHEET NO.: 1 OF *
SIZE: C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

ENG. NO: A-70287-1049 / 1097				
DIM. C		(8.13) / .320		
DIM. E (REF.)		(3.18) / .125		
DIM. L (REF.)		(13.59) / .535		
MATING SIDE PLATING		TIN		
DIM. D (MEASURE PT.)		(4.57) / .180		
P.C. BOARD SIDE PLATING		TIN		
DIM. F (MEASURE PT.)		(1.27) / .050		
RETENTIVE PIN LOCATION		SEE NOTE 6, SHEET 1		
PACKAGING		BULK - PK-70873-0353		
CKTS	MATERIAL NUMBER		CKTS	MATERIAL NUMBER
04	70287-1049		54	70287-1074
06	70287-1050		56	70287-1075
08	70287-1051		58	70287-1076
10	70287-1052		60	70287-1077
12	70287-1053		62	70287-1078
14	70287-1054		64	70287-1079
16	70287-1055		66	70287-1080
18	70287-1056		68	70287-1081
20	70287-1057		70	70287-1082
22	70287-1058		72	70287-1083
24	70287-1059		74	70287-1084
26	70287-1060		76	70287-1085
28	70287-1061		78	70287-1086
30	70287-1062		80	70287-1087
32	70287-1063		82	70287-1088
34	70287-1064		84	70287-1089
36	70287-1065		86	70287-1090
38	70287-1066		88	70287-1091
40	70287-1067		90	70287-1092
42	70287-1068		92	70287-1093
44	70287-1069		94	70287-1094
46	70287-1070		96	70287-1095
48	70287-1071		98	70287-1096
50	70287-1072		100	70287-1097
52	70287-1073			

ENG. NO: A-70287-1147 / 1195				
DIM. C		(8.13) / .320		
DIM. E (REF.)		(3.18) / .125		
DIM. L (REF.)		(13.59) / .535		
MATING SIDE PLATING		15 GOLD		
DIM. D (MEASURE PT.)		(4.57) / .180		
P.C. BOARD SIDE PLATING		TIN		
DIM. F (MEASURE PT.)		(1.27) / .050		
RETENTIVE PIN LOCATION		SEE NOTE 6, SHEET 1		
PACKAGING		BULK - PK-70873-0353		
CKTS	MATERIAL NUMBER		CKTS	MATERIAL NUMBER
04	70287-1147		54	70287-1172
06	70287-1148		56	70287-1173
08	70287-1149		58	70287-1174
10	70287-1150		60	70287-1175
12	70287-1151		62	70287-1176
14	70287-1152		64	70287-1177
16	70287-1153		66	70287-1178
18	70287-1154		68	70287-1179
20	70287-1155		70	70287-1180
22	70287-1156		72	70287-1181
24	70287-1157		74	70287-1182
26	70287-1158		76	70287-1183
28	70287-1159		78	70287-1184
30	70287-1160		80	70287-1185
32	70287-1161		82	70287-1186
34	70287-1162		84	70287-1187
36	70287-1163		86	70287-1188
38	70287-1164		88	70287-1189
40	70287-1165		90	70287-1190
42	70287-1166		92	70287-1191
44	70287-1167		94	70287-1192
46	70287-1168		96	70287-1193
48	70287-1169		98	70287-1194
50	70287-1170		100	70287-1195
52	70287-1171			

REV:	ECR/ECN INFORMATION	TITLE:	SHEET No.
B1	EC No: **UCP2010-0011** DATE: **3/2/2010**	SALES ASS'Y – HIGH TEMP. DUAL ROW, .025" SQ PINS .100" GRID W/ RET. PINS	**- 2 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD-70287-003	**MKIPPER**	**JBELL**	**FSMITH**

ENG. NO: A-70287-1245 / 1293				
DIM. C		(8.13) / .320		
DIM. E (REF.)		(3.18) / .125		
DIM. L (REF.)		(13.59) / .535		
MATING SIDE PLATING		30 GOLD		
DIM. D (MEASURE PT.)		(4.57) / .180		
P.C. BOARD SIDE PLATING		TIN		
DIM. F (MEASURE PT.)		(1.27) / .050		
RETENTIVE PIN LOCATION		SEE NOTE 6, SHEET 1		
PACKAGING		BULK - PK-70873-0353		
CKTS	MATERIAL NUMBER		CKTS	MATERIAL NUMBER
04	70287-1245		54	70287-1270
06	70287-1246		56	70287-1271
08	70287-1247		58	70287-1272
10	70287-1248		60	70287-1273
12	70287-1249		62	70287-1274
14	70287-1250		64	70287-1275
16	70287-1251		66	70287-1276
18	70287-1252		68	70287-1277
20	70287-1253		70	70287-1278
22	70287-1254		72	70287-1279
24	70287-1255		74	70287-1280
26	70287-1256		76	70287-1281
28	70287-1257		78	70287-1282
30	70287-1258		80	70287-1283
32	70287-1259		82	70287-1284
34	70287-1260		84	70287-1285
36	70287-1261		86	70287-1286
38	70287-1262		88	70287-1287
40	70287-1263		90	70287-1288
42	70287-1264		92	70287-1289
44	70287-1265		94	70287-1290
46	70287-1266		96	70287-1291
48	70287-1267		98	70287-1292
50	70287-1268		100	70287-1293
52	70287-1269			

REV:	ECR/ECN INFORMATION	TITLE:	SHEET No.
B1	EC No: **UCP2010-0011** DATE: **3/2/2010**	SALES ASS'Y – HIGH TEMP. DUAL ROW, .025" SQ PINS .100" GRID W/ RET. PINS	**- 3 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD-70287-003	**MKIPPER**	**JBELL**	**FSMITH**