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Part Number: [0702871209](#)
Status: **Active**
Description: 2.54mm (.100") Pitch C-Grid® Header, Breakaway, Dual Row, Vertical, with Retention Pin, 30 Circuits, 6.10mm (.240") Mating Pin Length, 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

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

Agency Certification

| | |
|-----|---------|
| CSA | LR19980 |
| UL | E29179 |

General

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

Physical

| | |
|--------------------------------|--------------------------------|
| Breakaway | Yes |
| Circuits (Loaded) | 30 |
| Circuits (maximum) | 30 |
| 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 | 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) | 32.000 |
| Plating min: Mating (µm) | 0.80 |
| Plating min: Termination (µin) | 80.000 |
| Plating min: Termination (µm) | 2.00 |
| Polarized to Mating Part | No |
| Polarized to PCB | No |



*Series
image - Reference only*

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

[70287Series](#)

Mates With

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

| | |
|--------------------------------|-----------------|
| Shrouded | No |
| Stackable | Yes |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -40°C to +120°C |
| Termination Interface: Style | Through Hole |

Electrical

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|-------------------------------|---------|
| 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-70287-004 |

This document was generated on 03/31/2010

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| ENG. NO: A-70287-1000 / 1048 | | | |
|------------------------------|-----------------|----------------------|-----------------|
| DIM. C | | (6.10) / .240 | |
| DIM. E (REF.) | | (3.18) / .125 | |
| DIM. L (REF.) | | (11.56) / .455 | |
| MATING SIDE PLATING | | TIN | |
| DIM. D (MEASURE PT.) | | (2.54) / .100 | |
| 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 | 70287-1000 | 54 | 70287-1025 |
| 06 | 70287-1001 | 56 | 70287-1026 |
| 08 | 70287-1002 | 58 | 70287-1027 |
| 10 | 70287-1003 | 60 | 70287-1028 |
| 12 | 70287-1004 | 62 | 70287-1029 |
| 14 | 70287-1005 | 64 | 70287-1030 |
| 16 | 70287-1006 | 66 | 70287-1031 |
| 18 | 70287-1007 | 68 | 70287-1032 |
| 20 | 70287-1008 | 70 | 70287-1033 |
| 22 | 70287-1009 | 72 | 70287-1034 |
| 24 | 70287-1010 | 74 | 70287-1035 |
| 26 | 70287-1011 | 76 | 70287-1036 |
| 28 | 70287-1012 | 78 | 70287-1037 |
| 30 | 70287-1013 | 80 | 70287-1038 |
| 32 | 70287-1014 | 82 | 70287-1039 |
| 34 | 70287-1015 | 84 | 70287-1040 |
| 36 | 70287-1016 | 86 | 70287-1041 |
| 38 | 70287-1017 | 88 | 70287-1042 |
| 40 | 70287-1018 | 90 | 70287-1043 |
| 42 | 70287-1019 | 92 | 70287-1044 |
| 44 | 70287-1020 | 94 | 70287-1045 |
| 46 | 70287-1021 | 96 | 70287-1046 |
| 48 | 70287-1022 | 98 | 70287-1047 |
| 50 | 70287-1023 | 100 | 70287-1048 |
| 52 | 70287-1024 | | |

| ENG. NO: A-70287-1098 / 1146 | | | |
|------------------------------|-----------------|----------------------|-----------------|
| DIM. C | | (6.10) / .240 | |
| DIM. E (REF.) | | (3.18) / .125 | |
| DIM. L (REF.) | | (11.56) / .455 | |
| MATING SIDE PLATING | | 15 GOLD | |
| DIM. D (MEASURE PT.) | | (2.54) / .100 | |
| 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 | 70287-1098 | 54 | 70287-1123 |
| 06 | 70287-1099 | 56 | 70287-1124 |
| 08 | 70287-1100 | 58 | 70287-1125 |
| 10 | 70287-1101 | 60 | 70287-1126 |
| 12 | 70287-1102 | 62 | 70287-1127 |
| 14 | 70287-1103 | 64 | 70287-1128 |
| 16 | 70287-1104 | 66 | 70287-1129 |
| 18 | 70287-1105 | 68 | 70287-1130 |
| 20 | 70287-1106 | 70 | 70287-1131 |
| 22 | 70287-1107 | 72 | 70287-1132 |
| 24 | 70287-1108 | 74 | 70287-1133 |
| 26 | 70287-1109 | 76 | 70287-1134 |
| 28 | 70287-1110 | 78 | 70287-1135 |
| 30 | 70287-1111 | 80 | 70287-1136 |
| 32 | 70287-1112 | 82 | 70287-1137 |
| 34 | 70287-1113 | 84 | 70287-1138 |
| 36 | 70287-1114 | 86 | 70287-1139 |
| 38 | 70287-1115 | 88 | 70287-1140 |
| 40 | 70287-1116 | 90 | 70287-1141 |
| 42 | 70287-1117 | 92 | 70287-1142 |
| 44 | 70287-1118 | 94 | 70287-1143 |
| 46 | 70287-1119 | 96 | 70287-1144 |
| 48 | 70287-1120 | 98 | 70287-1145 |
| 50 | 70287-1121 | 100 | 70287-1146 |
| 52 | 70287-1122 | | |

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|---------------------|------|----------------------------|--------------|--|--------------|
| A | REV: | ECR/ECN INFORMATION | TITLE: | SALES ASS'Y – HIGH TEMP. DUAL ROW, .025" SQ PINS .100" GRID W/ RET. PINS | SHEET No. |
| | | EC No: UCP2010-0011 | | | - 2 - |
| | | DATE: 3/2/2010 | | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: | |
| SD-70287-004 | | MKIPPER | JBELL | FSMITH | |

ENG. NO: A-70287-1196 / 1244

| | | | |
|-------------------------|-----------------|----------------------|-----------------|
| DIM. C | | (6.10) / .240 | |
| DIM. E (REF.) | | (3.18) / .125 | |
| DIM. L (REF.) | | (11.56) / .455 | |
| MATING SIDE PLATING | | 30 GOLD | |
| DIM. D (MEASURE PT.) | | (2.54) / .100 | |
| 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 | 70287-1196 | 54 | 70287-1221 |
| 06 | 70287-1197 | 56 | 70287-1222 |
| 08 | 70287-1198 | 58 | 70287-1223 |
| 10 | 70287-1199 | 60 | 70287-1224 |
| 12 | 70287-1200 | 62 | 70287-1225 |
| 14 | 70287-1201 | 64 | 70287-1226 |
| 16 | 70287-1202 | 66 | 70287-1227 |
| 18 | 70287-1203 | 68 | 70287-1228 |
| 20 | 70287-1204 | 70 | 70287-1229 |
| 22 | 70287-1205 | 72 | 70287-1230 |
| 24 | 70287-1206 | 74 | 70287-1231 |
| 26 | 70287-1207 | 76 | 70287-1232 |
| 28 | 70287-1208 | 78 | 70287-1233 |
| 30 | 70287-1209 | 80 | 70287-1234 |
| 32 | 70287-1210 | 82 | 70287-1235 |
| 34 | 70287-1211 | 84 | 70287-1236 |
| 36 | 70287-1212 | 86 | 70287-1237 |
| 38 | 70287-1213 | 88 | 70287-1238 |
| 40 | 70287-1214 | 90 | 70287-1239 |
| 42 | 70287-1215 | 92 | 70287-1240 |
| 44 | 70287-1216 | 94 | 70287-1241 |
| 46 | 70287-1217 | 96 | 70287-1242 |
| 48 | 70287-1218 | 98 | 70287-1243 |
| 50 | 70287-1219 | 100 | 70287-1244 |
| 52 | 70287-1220 | | |

ENG. NO: A-70287-1294

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|-------------------------|-----------------|--|----------|
| DIM. C | | (6.10) / .240 | |
| DIM. E (REF.) | | (3.18) / .125 | |
| DIM. L (REF.) | | (11.56) / .455 | |
| MATING SIDE PLATING | | TIN | |
| DIM. D (MEASURE PT.) | | (2.54) / .100 | |
| P.C. BOARD SIDE PLATING | | TIN | |
| DIM. F (MEASURE PT.) | | (1.27) / .050 | |
| RETENTIVE PIN LOCATION | | ROW B - CKTS 1, 5 (SEE NOTE 6, SHEET 1) | |
| PACKAGING | | BULK - PK-70873-0353 | |
| | | VOID PIN LOCATION | |
| CKTS | MATERIAL NUMBER | ROW | LOCATION |
| 10 | 70287-1294 | A | 2, 3 |
| | | B | 2, 3 |
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| REV: A | ECR/ECN INFORMATION | TITLE: SALES ASS'Y – HIGH TEMP. DUAL ROW, .025" SQ PINS .100" GRID W/ RET. PINS | SHEET No. |
| | EC No: UCP2010-0011 | | - 3 - |
| | DATE: 3/2/2010 | | |
| DOCUMENT NUMBER: SD-70287-004 | CREATED / REVISED BY: MKIPPER | CHECKED BY: JBELL | APPROVED BY: FSMITH |

ENG. NO: A-70287-1295

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|-------------------------|--|-----|----------|
| DIM. C | (5.84) / .230 | | |
| DIM. E (REF.) | (2.97) / .117 | | |
| DIM. L (REF.) | (11.10) / .437 | | |
| MATING SIDE PLATING | 15 GOLD | | |
| DIM. D (MEASURE PT.) | (2.54) / .100 | | |
| P.C. BOARD SIDE PLATING | TIN | | |
| DIM. F (MEASURE PT.) | (1.27) / .050 | | |
| RETENTIVE PIN LOCATION | ROW B - CKTS 3, 4 (SEE NOTE 6, SHEET 1) | | |
| PACKAGING | BULK - PK-70873-0353 | | |
| VOID PIN LOCATION | | | |
| CKTS | MATERIAL NUMBER | ROW | LOCATION |
| 10 | 70287-1295 | A | 1 |
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| A | REV: | ECR/ECN INFORMATION | TITLE: | SHEET No. |
| | | EC No: UCP2010-0011 | SALES ASS'Y – HIGH TEMP. DUAL ROW, .025" SQ PINS .100" GRID W/ RET. PINS | - 4 - |
| | | DATE: 3/2/2010 | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
| SD-70287-004 | | MKIPPER | JBELL | FSMITH |