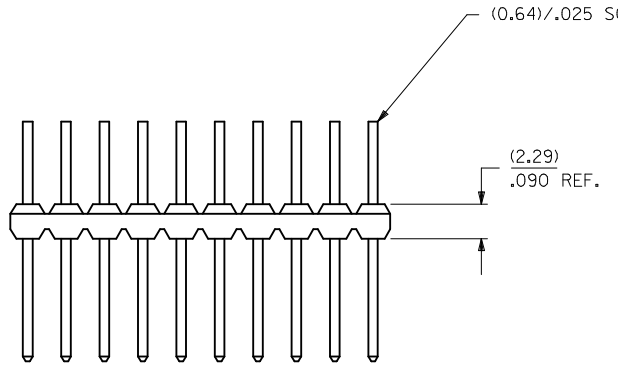
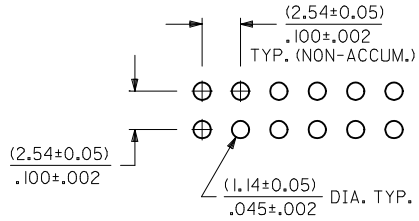
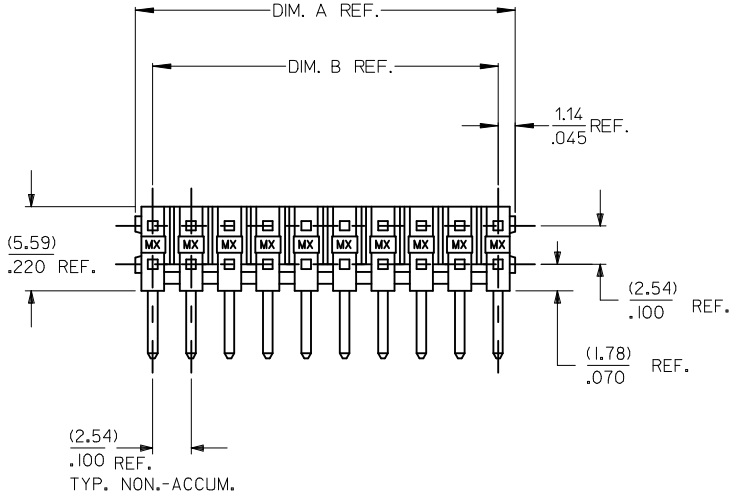
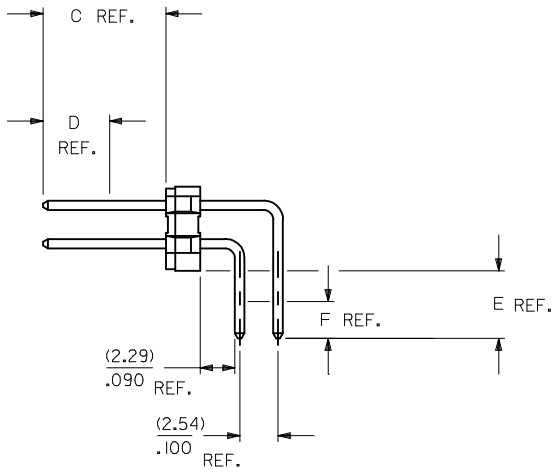



RECOMMENDED P.C. BOARD HOLE LAYOUT

| CKT. SIZE | DIM. A | | DIM. B | |
|---|---|---|---|---|
| | MM | INCH | MM | INCH |
| 04 | 4.83 | .190 | 2.54 | .100 |
| 06 | 7.37 | .290 | 5.08 | .200 |
| 08 | 9.91 | .390 | 7.62 | .300 |
| 10 | 12.45 | .490 | 10.16 | .400 |
| 12 | 14.99 | .590 | 12.70 | .500 |
| 14 | 17.53 | .690 | 15.24 | .600 |
| 16 | 20.07 | .790 | 17.78 | .700 |
| 18 | 22.61 | .890 | 20.32 | .800 |
| 20 | 25.15 | .990 | 22.86 | .900 |
| 22 | 27.69 | 1.090 | 25.40 | 1.000 |
| 24 | 30.23 | 1.190 | 27.94 | 1.100 |
| 26 | 32.77 | 1.290 | 30.48 | 1.200 |
| 28 | 35.31 | 1.390 | 33.02 | 1.300 |
| 30 | 37.85 | 1.490 | 35.56 | 1.400 |




NOTES:
1. MATERIAL: WAFER - GLASS-FILLED POLYESTER, 94V-0; COLOR: BLACK.
   PINS - COPPER ALLOY
2. FINISH:
   TIN - 0.00381/.000150 MINIMUM TIN OVER 0.00127/.000050 MINIMUM NICKEL OVERALL.
   15 GOLD - 0.00038/.000015 MINIMUM GOLD PLATE IN SELECTED AREA AND
   0.00191/.000075 MINIMUM TIN IN SELECTED AREA OVER 0.00127/.000050
   MINIMUM NICKEL OVERALL.
   30 GOLD - 0.00076/.000030 MINIMUM GOLD PLATE IN SELECTE AREA AND
   0.00191/.000075 MINIMUM TIN IN SELECTED AREA OVER 0.00121/.000050
   MINIMUM NICKEL OVERALL.
3. PRODUCT SPECIFICATION: PS-70216.
4. PACKAGING SPECIFICATION: FOR 4 THROUGH 8 CIRCUIT PARTS, SEE PK-70873-0353.
   FOR 10 CIRCUITS AND OVER, SEE PK-70873-0075.
5. PIN PUSHOUT FORCE: 3 LBS. MINIMUM.
6. FOR ILLUSTRATION PURPOSES, 20 (DUAL 10) CIRCUIT SIZE WAFER IS SHOWN.
7. PINS MUST MEET SOLDERABILITY SPEC. SMES-152.
8. WAFER TO BE FLAT WITHIN (0.03 MM/CM) OR .003 IN./IN.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF
   COSMETIC SPECIFICATION PS-45499-002.

| 2-* | A1 |
|---|---|
| 1 | C |
| SHT | REV |

PIN PUSHOUT FORCE
EC NO: UCP2013-2835 2013/07/17
DRWN:MKIPPER 2013/07/17
CHKD:BANDERSON 2013/09/27
APPR:FSMITH
DESCRIPTION
REV

QUALITY SYMBOLS
E =0
E =0
E =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .005 |
| 2 PLACES | ± 0.13 | ± .01 |
| 1 PLACE | ± 0.25 | ± --- |
| 0 PLACE | ± | ± |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| DIMENSION STYLE | MM/IN |
| SCALE | 4:1 |
| DESIGN UNITS | INCH |
| | THIRD ANGLE PROJECTION |
| DRAWN BY / DATE | RCB 1994/05/18 |
| CHECKED BY / DATE | RCB 1994/05/18 |
| APPROVED BY / DATE | SMILLER 2010/10/06 |
| MATERIAL NO. | SEE CHART |
| SIZE | C |

TITLE: RT. ANG. WAFER ASS'Y 2.54/.100 GRID, DUAL ROW BREAKAWAY 0.64/.025 PINS

molex

DOCUMENT NO. SD-70216-001

SHEET NO. 1 OF *

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

| ENG. NO: A-70216-0079/0092 | |
|---|---|
| DIM. C | (6.10)/.240 |
| DIM. E (REF.) | (2.79)/.110 |
| FINISH | TIN |
| CONNECTOR END PLATING | TIN |
| DIM. D (MEASURE PT.) | (2.54)/.100 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | 10-88-3041 | A-70216-0079 |
| 06 | 10-88-3061 | A-70216-0080 |
| 08 | 10-88-3081 | A-70216-0081 |
| 10 | 10-88-3101 | A-70216-0082 |
| 12 | 10-88-3121 | A-70216-0083 |
| 14 | 10-88-3141 | A-70216-0084 |
| 16 | 10-88-3161 | A-70216-0085 |
| 18 | 10-88-3181 | A-70216-0086 |
| 20 | 10-88-3201 | A-70216-0087 |
| 22 | 10-88-3221 | A-70216-0088 |
| 24 | 10-88-3241 | A-70216-0089 |
| 26 | 10-88-3261 | A-70216-0090 |
| 28 | 10-88-3281 | A-70216-0091 |
| 30 | 10-88-3301 | A-70216-0092 |

| ENG. NO: A-70216-0118/0131 | |
|---|---|
| DIM. C | (8.13)/.320 |
| DIM. E (REF.) | (2.79)/.110 |
| FINISH | TIN |
| CONNECTOR END PLATING | TIN |
| DIM. D (MEASURE PT.) | (4.57)/.180 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | 10-88-3042 | A-70216-0118 |
| 06 | 10-88-3062 | A-70216-0119 |
| 08 | 10-88-3082 | A-70216-0120 |
| 10 | 10-88-3102 | A-70216-0121 |
| 12 | 10-88-3122 | A-70216-0122 |
| 14 | 10-88-3142 | A-70216-0123 |
| 16 | 10-88-3162 | A-70216-0124 |
| 18 | 10-88-3182 | A-70216-0125 |
| 20 | 10-88-3202 | A-70216-0126 |
| 22 | 10-88-3222 | A-70216-0127 |
| 24 | 10-88-3242 | A-70216-0128 |
| 26 | 10-88-3262 | A-70216-0129 |
| 28 | 10-88-3282 | A-70216-0130 |
| 30 | 10-88-3302 | A-70216-0131 |

| ENG. NO: A-70216-0235/0248 | |
|---|---|
| DIM. C | (6.10)/.240 |
| DIM. E (REF.) | (2.79)/.110 |
| FINISH | 15 GOLD |
| CONNECTOR END PLATING | GOLD |
| DIM. D (MEASURE PT.) | (2.54)/.100 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | 10-89-4042 | A-70216-0235 |
| 06 | 10-89-4062 | A-70216-0236 |
| 08 | 10-89-4082 | A-70216-0237 |
| 10 | 10-89-4102 | A-70216-0238 |
| 12 | 10-89-4122 | A-70216-0239 |
| 14 | 10-89-4142 | A-70216-0240 |
| 16 | 10-89-4162 | A-70216-0241 |
| 18 | 10-89-4182 | A-70216-0242 |
| 20 | 10-89-4202 | A-70216-0243 |
| 22 | 10-89-4222 | A-70216-0244 |
| 24 | 10-89-4242 | A-70216-0245 |
| 26 | 10-89-4262 | A-70216-0246 |
| 28 | 10-89-4282 | A-70216-0247 |
| 30 | 10-89-4302 | A-70216-0248 |

| REV: | ECR/ECN INFORMATION | TITLE: | SHEET No. |
|---|---|---|---|
| **A1** | EC No: **UCP2007-1509**<br>DATE: **2006-12-18** | RT. ANG. WAFER ASS'Y<br>2.54/.100 GRID, DUAL ROW<br>BREAKAWAY 0.64/.025 PINS | **- 2 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SD-70216-001** | **PRIDDER** | **ADERR** | **FSMITH** |

| ENG. NO: A-70216-0274/0287 | |
|---|---|
| DIM. C | (8.13)/.320 |
| DIM. E (REF.) | (2.79)/.110 |
| FINISH | 15 GOLD |
| CONNECTOR END PLATING | GOLD |
| DIM. D (MEASURE PT.) | (4.57)/.180 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | 10-89-4043 | A-70216-0274 |
| 06 | 10-89-4063 | A-70216-0275 |
| 08 | 10-89-4083 | A-70216-0276 |
| 10 | 10-89-4103 | A-70216-0277 |
| 12 | 10-89-4123 | A-70216-0278 |
| 14 | 10-89-4143 | A-70216-0279 |
| 16 | 10-89-4163 | A-70216-0280 |
| 18 | 10-89-4183 | A-70216-0281 |
| 20 | 10-89-4203 | A-70216-0282 |
| 22 | 10-89-4223 | A-70216-0283 |
| 24 | 10-89-4243 | A-70216-0284 |
| 26 | 10-89-4263 | A-70216-0285 |
| 28 | 10-89-4283 | A-70216-0286 |
| 30 | 10-89-4303 | A-70216-0287 |

| ENG. NO: A-70216-0391/0404 | |
|---|---|
| DIM. C | (6.10)/.240 |
| DIM. E (REF.) | (2.79)/.110 |
| FINISH | 30 GOLD |
| CONNECTOR END PLATING | GOLD |
| DIM. D (MEASURE PT.) | (2.54)/.100 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | 10-89-4046 | A-70216-0391 |
| 06 | 10-89-4066 | A-70216-0392 |
| 08 | 10-89-4086 | A-70216-0393 |
| 10 | 10-89-4106 | A-70216-0394 |
| 12 | 10-89-4126 | A-70216-0395 |
| 14 | 10-89-4146 | A-70216-0396 |
| 16 | 10-89-4166 | A-70216-0397 |
| 18 | 10-89-4186 | A-70216-0398 |
| 20 | 10-89-4206 | A-70216-0399 |
| 22 | 10-89-4226 | A-70216-0400 |
| 24 | 10-89-4246 | A-70216-0401 |
| 26 | 10-89-4266 | A-70216-0402 |
| 28 | 10-89-4286 | A-70216-0403 |
| 30 | 10-89-4306 | A-70216-0404 |

| ENG. NO: A-70216-0430/0443 | |
|---|---|
| DIM. C | (8.13)/.320 |
| DIM. E (REF.) | (2.79)/.110 |
| FINISH | 30 GOLD |
| CONNECTOR END PLATING | GOLD |
| DIM. D (MEASURE PT.) | (4.57)/.180 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | 10-89-4047 | A-70216-0430 |
| 06 | 10-89-4067 | A-70216-0431 |
| 08 | 10-89-4087 | A-70216-0432 |
| 10 | 10-89-4107 | A-70216-0433 |
| 12 | 10-89-4127 | A-70216-0434 |
| 14 | 10-89-4147 | A-70216-0435 |
| 16 | 10-89-4167 | A-70216-0436 |
| 18 | 10-89-4187 | A-70216-0437 |
| 20 | 10-89-4207 | A-70216-0438 |
| 22 | 10-89-4227 | A-70216-0439 |
| 24 | 10-89-4247 | A-70216-0440 |
| 26 | 10-89-4267 | A-70216-0441 |
| 28 | 10-89-4287 | A-70216-0442 |
| 30 | 10-89-4307 | A-70216-0443 |

| REV: | ECR/ECN INFORMATION | TITLE: | SHEET No. |
|---|---|---|---|
| **A1** | EC No: **UCP2007-1509**<br>DATE: **2006-12-18** | RT. ANG. WAFER ASS'Y<br>2.54/.100 GRID, DUAL ROW<br>BREAKAWAY 0.64/.025 PINS | **- 3 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SD-70216-001** | **PRIDDER** | **ADERR** | **FSMITH** |

| ENG. NO: A-70216-0313/0326 | |
|---|---|
| DIM. C | (6.10)/..240 |
| DIM. E (REF.) | (4.19)/.165 |
| FINISH | 15 GOLD |
| CONNECTOR END PLATING | GOLD |
| DIM. D (MEASURE PT.) | (4.57)/.180 |
| P.C. BOARD END PLATING | TIN |
| DIM. F (MEASURE PT.) | (1.27)/.050 |
| PACKAGING | SEE NOTE 4 ON SHT. 1 |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | | |
| 06 | | |
| 08 | | |
| 10 | | |
| 12 | | |
| 14 | | |
| 16 | | |
| 18 | | |
| 20 | | |
| 22 | | |
| 24 | | |
| 26 | | |
| 28 | | |
| 30 | 50-34-8535 | A-70216-0326 |
| | | |
| | | |
| | | |
| | | |

| ENG. NO: A-70216- | |
|---|---|
| DIM. C | |
| DIM. E (REF.) | |
| FINISH | |
| CONNECTOR END PLATING | |
| DIM. D (MEASURE PT.) | |
| P.C. BOARD END PLATING | |
| DIM. F (MEASURE PT.) | |
| PACKAGING | |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | | |
| 06 | | |
| 08 | | |
| 10 | | |
| 12 | | |
| 14 | | |
| 16 | | |
| 18 | | |
| 20 | | |
| 22 | | |
| 24 | | |
| 26 | | |
| 28 | | |
| 30 | | |
| | | |
| | | |
| | | |
| | | |

| ENG. NO: A-70216- | |
|---|---|
| DIM. C | |
| DIM. E (REF.) | |
| FINISH | |
| CONNECTOR END PLATING | |
| DIM. D (MEASURE PT.) | |
| P.C. BOARD END PLATING | |
| DIM. F (MEASURE PT.) | |
| PACKAGING | |

| CKTS | EDP NUMBER | ENG. NUMBER |
|---|---|---|
| 04 | | |
| 06 | | |
| 08 | | |
| 10 | | |
| 12 | | |
| 14 | | |
| 16 | | |
| 18 | | |
| 20 | | |
| 22 | | |
| 24 | | |
| 26 | | |
| 28 | | |
| 30 | | |
| | | |
| | | |
| | | |
| | | |

| REV: | ECR/ECN INFORMATION | TITLE: | SHEET No. |
|---|---|---|---|
| **A1** | EC No: **UCP2007-1509**<br>DATE: **2006-12-18** | RT. ANG. WAFER ASS'Y<br>2.54/.100 GRID, DUAL ROW<br>BREAKAWAY 0.64/.025 PINS | **- 4 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SD-70216-001** | **PRIDDER** | **ADERR** | **FSMITH** |

# Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

## molex:

0436802002 190670071 447641402 0436400901 417920538 447691602 152670251 152670357
190990009 190990010 430451220 151660057 152660117 190730231 397730002 444280402 760475001
0190690033 152670269 430450225 436803002 5046940301 151670255 190690096 439151216
447642001 459705185 0190700155 398800403 759001161