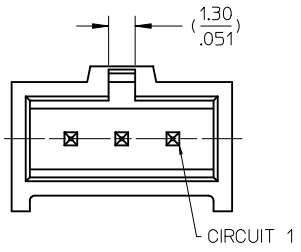
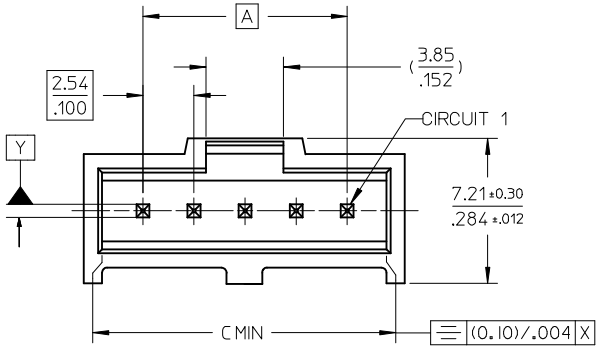
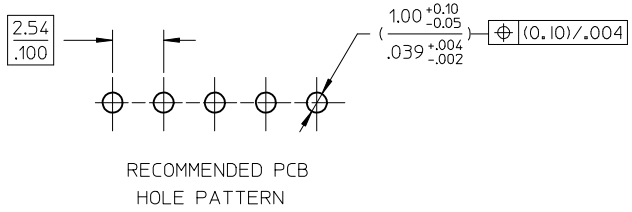
# THROUGH HOLE VERSION (STRAIGHT ASSEMBLY)



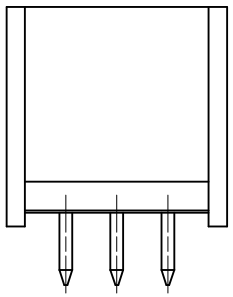

1 TO 3 CIRCUITS

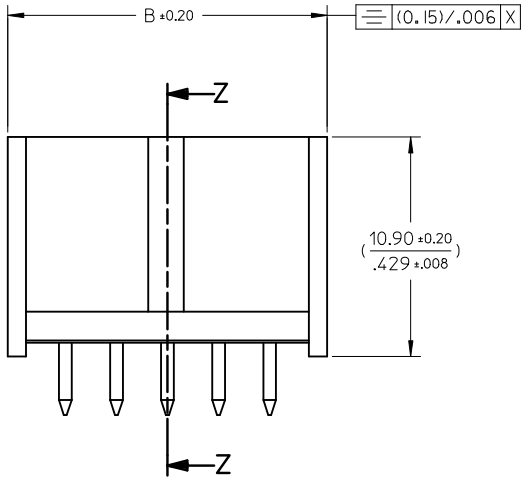


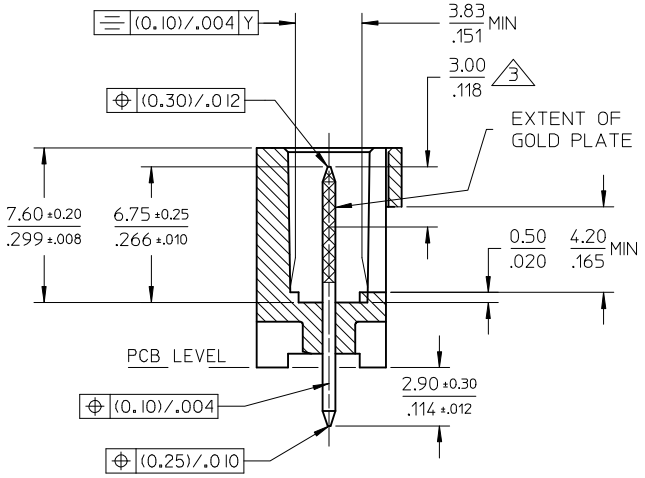

4 TO 32 CIRCUITS




RECOMMENDED PCB HOLE PATTERN






SECTION Z-Z

NOTES :
1. MATERIALS :
   - PIN : (0.650)/ .0255 SQ. BRASS WIRE.
   - HOUSING : 15% GLASS FILLED POLYESTER
   - UL 94V-0 COLOR BLACK
2. FOR PLATINGVERSIONS, SEE SHEET 2.
3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.
4. PRODUCT SPEC: PS-99020-0001
5. RECOMMENDED PCB THICKNESS 1.6mm

UPDATE DRAWING
EC NO: S2014-0925 2014/04/01
DRWN:ATSEE 2014/04/17
CH'KD:FANNYWONG 2014/04/10
APPR:LBLEE
DESCRIPTION
REV
AF

QUALITY SYMBOLS
$F_V$=0
$F_C$=0
$F_P$=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ±.004 |
| 2 PLACES | ± 0.10 | ± --- |
| 1 PLACE | ± --- | ± --- |
| 0 PLACE | ± | ± |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

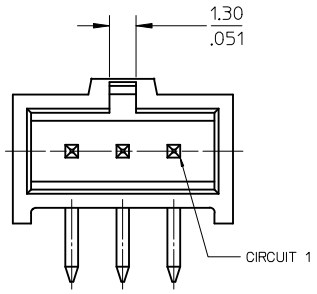
DRAWN BY: KS DATE: 1987/10/30
CHECKED BY: BENRIGHT DATE: 2002/08/15
APPROVED BY: MLONG DATE: 2011/04/15

TITLE: C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER

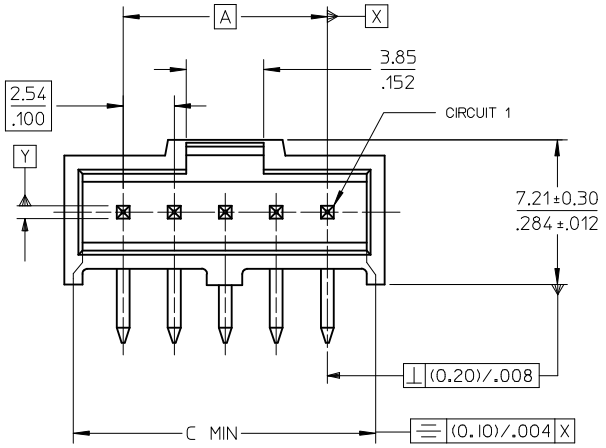
molex

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90136
SHEET NO.: 1 OF 3
SIZE: A3

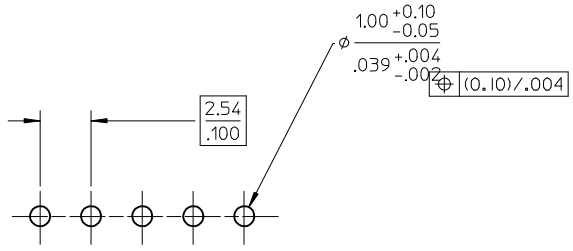
# RIGHT ANGLE VERSION



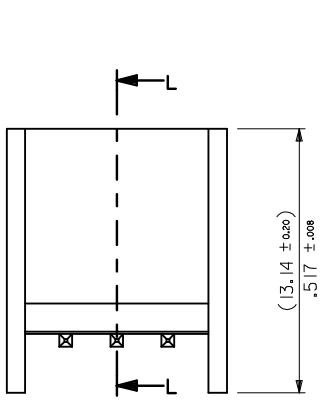

1 TO 3 CIRCUITS



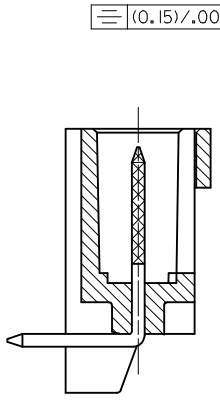

4 TO 32 CIRCUITS




RECOMMENDED PCB PATTERN



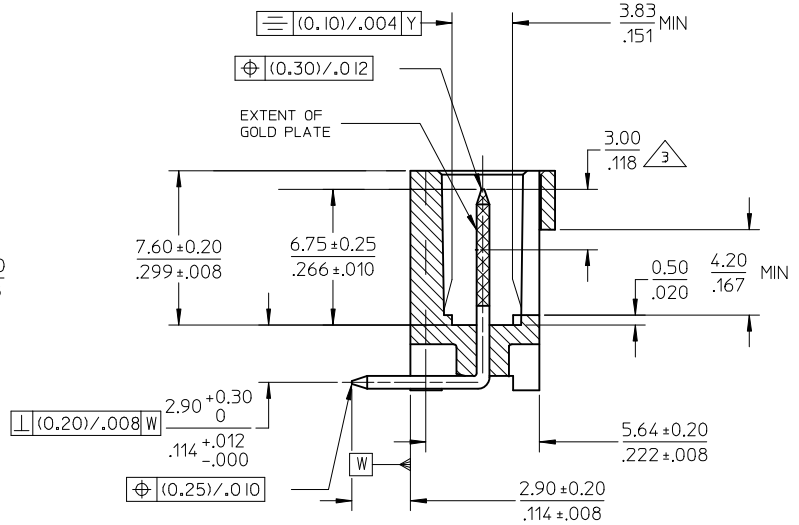

1 TO 6 CIRCUITS



SECTION L-L




7 TO 32 CIRCUITS




SECTION K-K

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| UPDATE DRAWING<br>EC NO: S2014-0925 2014/04/01<br>DRWN:ATSEE 2014/04/17<br>CH'KD:FANNYWONG 2014/04/10<br>APPR:LBLEE<br>DESCRIPTION<br>AF REV | QUALITY SYMBOLS<br>E/A=0<br>E/C=0<br>E/P=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm / INCH<br>4 PLACES ± --- / ± ---<br>3 PLACES ± --- / ±.004<br>2 PLACES ± 0.10 / ± ---<br>1 PLACE ± --- / ± ---<br>0 PLACE ± / ±<br>ANGULAR ±1/2°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE: MM/IN | SCALE: NTS | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION | |
| | | | DRAWN BY: KS — DATE: 1987/10/30<br>CHECKED BY: BENRIGHT — DATE: 2002/08/15<br>APPROVED BY: MLONG — DATE: 2011/04/15<br>MATERIAL NO.: SEE TABLE | TITLE: C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER<br>molex<br>DOCUMENT NO.: SDA-90136 | | SHEET NO.: 2 OF 3 | |
| | | | SIZE: A3 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |

| CKTS | ASSEMBLY P/N | DIM A | DIM B | DIM C |
|---|---|---|---|---|
| 1 | 90136-**01 | - | (5.89)/.232 | (4.06)/.160 |
| 2 | 90136-**02 | (2.54)/.100 | (8.43)/.332 | (6.60)/.260 |
| 3 | 90136-**03 | (5.08)/.200 | (10.97)/.432 | (9.14)/.360 |
| 4 | 90136-**04 | (7.62)/.300 | (13.51)/.532 | (11.68)/.460 |
| 5 | 90136-**05 | (10.16)/.400 | (16.05)/.632 | (14.22)/.560 |
| 6 | 90136-**06 | (12.70)/.500 | (18.59)/.732 | (16.76)/.660 |
| 7 | 90136-**07 | (15.24)/.600 | (21.13)/.832 | (19.30)/.760 |
| 8 | 90136-**08 | (17.78)/.700 | (23.67)/.932 | (21.84)/.860 |
| 9 | 90136-**09 | (20.32)/.800 | (26.21)/1.032 | (24.38)/.960 |
| 10 | 90136-**10 | (22.86)/.900 | (28.75)/1.132 | (26.92)/1.060 |
| 11 | 90136-**11 | (25.4)/1.000 | (31.29)/1.232 | (29.46)/1.160 |
| 12 | 90136-**12 | (27.94)/1.100 | (33.83)/1.332 | (32.00)/1.260 |
| 13 | 90136-**13 | (30.48)/1.200 | (36.37)/1.432 | (34.54)/1.360 |
| 14 | 90136-**14 | (33.02)/1.300 | (38.91)/1.532 | (37.08)/1.460 |
| 15 | 90136-**15 | (35.56)/1.400 | (41.45)/1.632 | (39.62)/1.560 |
| 16 | 90136-**16 | (38.10)/1.500 | (43.99)/1.732 | (42.16)/1.660 |
| 17 | 90136-**17 | (40.64)/1.600 | (46.53)/1.832 | (44.70)/1.760 |
| 18 | 90136-**18 | (43.18)/1.700 | (49.07)/1.932 | (47.24)/1.860 |
| 19 | 90136-**19 | (45.72)/1.800 | (51.61)/2.032 | (49.78)/1.960 |
| 20 | 90136-**20 | (48.26)/1.900 | (54.15)/2.132 | (52.32)/2.060 |
| 21 | 90136-**21 | (50.80)/2.000 | (56.69)/2.232 | (54.86)/2.160 |
| 22 | 90136-**22 | (53.34)/2.100 | (59.23)/2.332 | (57.40)/2.260 |
| 23 | 90136-**23 | (55.88)/2.200 | (61.77)/2.432 | (59.94)/2.360 |
| 24 | 90136-**24 | (58.42)/2.300 | (64.31)/2.532 | (62.48)/2.460 |
| 25 | 90136-**25 | (60.96)/2.400 | (66.85)/2.632 | (65.02)/2.560 |
| 26 | 90136-**26 | (63.50)/2.500 | (69.39)/2.732 | (67.56)/2.660 |
| 27 | 90136-**27 | (66.04)/2.600 | (71.93)/2.832 | (70.10)/2.760 |
| 28 | 90136-**28 | (68.58)/2.700 | (74.47)/2.932 | (72.64)/2.860 |
| 29 | 90136-**29 | (71.12)/2.800 | (77.01)/3.032 | (75.18)/2.960 |
| 30 | 90136-**30 | (73.66)/2.900 | (79.55)/3.132 | (77.72)/3.060 |
| 31 | 90136-**31 | (76.20)/3.000 | (82.09)/3.232 | (80.26)/3.160 |
| 32 | 90136-**32 | (78.74)/3.100 | (84.63)/3.332 | (82.80)/3.260 |

NOTES

6. FOR PLATING DETAILS SEE SDES 99000-0003

90136 - X X X X

- INDICATES NO. OF CIRCUITS
- PLATING
  - 1 - TYPE A
  - 2 - TYPE E
  - 3 - TYPE F
  - 4 - TYPE G
- STYLE - 1 - STRAIGHT ASSEMBLY
  STYLE - 2 - RIGHT ANGLE ASSEMBLY
  STYLE - 5 - STRAIGHT ASSEMBLY WITH VOIDS
  STYLE - 7 - NON STANDARD PRODUCT

7. PLATING TYPES

1 - TYPE A
TIN 3.0μm MIN. OVER 1.27 - 2.54μm NICKEL.

2 - TYPE E
GOLD STRIPE 0.38 - 0.64μm IN SELECTED AREA
(2 SIDES) & 3.0μm MIN TIN IN SELECTED AREA
OVER 1.3 - 1.78μm NICKEL OVERALL.

3 - TYPE F
GOLD STRIPE 0.762 - 1.02μm IN SELECTED AREA
(2 SIDES) & 3.0μm MIN TIN IN SELECTED AREA
OVER 1.3 - 1.78μm NICKEL OVERALL.

4 - TYPE G
SELECTIVE GOLD PLATE. GOLD FLASH 0.05 - 0.10μm IN SELECTED AREA
AND 3.0μm MIN - 5.0μm MAX TIN IN SELECTED AREA
OVER 1.3 - 2.5μm NICKEL OVERALL.

UPDATE DRAWING
EC NO: S2014-0925
DRWN:ATSEE 2014/04/01
CHKD:FANNYWONG 2014/04/17
APPR:LBLEE 2014/04/10
DESCRIPTION
REV
AF

QUALITY SYMBOLS
FA=0
FC=0
FP=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ±.004 |
| 2 PLACES | ± 0.10 | ± --- |
| 1 PLACE | ± --- | ± --- |
| 0 PLACE | ± | ± |

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KS DATE: 1987/10/30
CHECKED BY: BENRIGHT DATE: 2002/08/15
APPROVED BY: MLONG DATE: 2011/04/15

TITLE: C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER

molex

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-90136
SHEET NO.: 3 OF 3
SIZE: A3