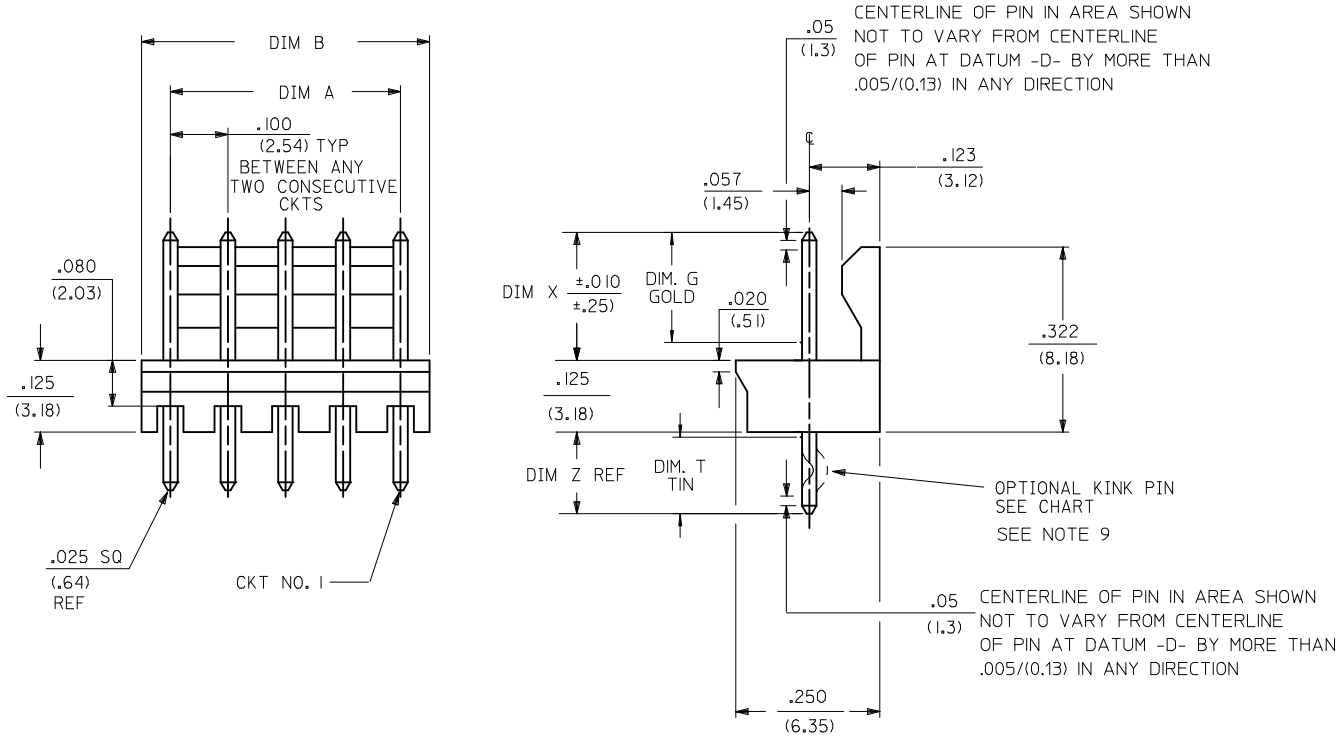
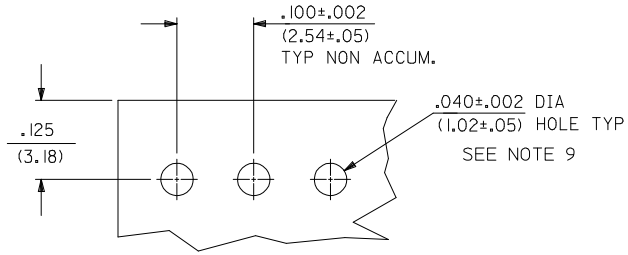



| CKTS | DIM A | DIM B |
|---|---|---|
| 2 | .100 (2.54 ) | .195 (4.95 ) |
| 3 | .200 (5.08 ) | .295 (7.49 ) |
| 4 | .300 (7.62 ) | .395 (10.03) |
| 5 | .400 (10.16) | .495 (12.57) |
| 6 | .500 (12.70) | .595 (15.11) |
| 7 | .600 (15.24) | .695 (17.65) |
| 8 | .700 (17.78) | .795 (20.19) |
| 9 | .800 (20.32) | .895 (22.73) |
| 10 | .900 (22.86) | .995 (25.27) |

NOTES:

1. MATERIAL: GLASS FILLED POLYESTER, RATED UL 94V-0, COLOR: NATURAL (WHITE)
   PIN MATERIAL: 260 BRASS.
2. FINISH:
   (197) - OVERALL REFLOWED MATTE TIN: .000060/(0.00152) MIN.
   OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.
   (154) - OVERALL TIN: .000100/(0.00254) MIN.
   OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.
   (231) - SELECT GOLD: .000050/(0.00127) MIN.
   SELECT MATTE TIN: .000100/(0.00254) MIN.
   OVERALL NICKEL UNDERPLATE: .000050/(0.00127) MIN.
3. PRODUCT SPECIFICATIONS: PS-10-07.
4. PACKAGING: OPTION 1): BULK PER PK-43009-001.
   OPTION 2): TUBE PER PK-44743-001.
5. PIN PUSH OUT FORCE: 3 LBS. MIN. (PER CKT).
6. PARTS ARE STACKABLE END TO END ON .100/(2.54) CENTERS.
7. SOLDERABILITY PER ES-152.
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
9. KINK PIN OPTION NOT RECOMMENDED FOR 2 CIRCUIT PARTS.
   HOLE SIZE MAY NEED TO BE ADJUSTED FOR 2 CIRCUIT PARTS WITH KINK OPTION FOR PROPER INSERTION INTO THE PCB.
   SEE SMES-42003 FOR ADDITIONAL INFORMATION ON KINK PIN DIRECTION AND PLACEMENT.




RECOMMENDED PC BOARD LAYOUT
(.062 THK)

| | | |
|---|---|---|
| GEN. DOC. | 2-* | E1 |
| ME 10 | 1 | E2 |
| DOC. TYPE | SHEET | REV. |

ADD NOTE 9 — 2012/09/12
EC NO: UCP2013-1030 — 2012/09/14
DRWN:MMSTROH — 2012/09/14
CHKD:MKIPPER — 2012/10/09
APPR:FSMITH — DESCRIPTION
E2 — REV

QUALITY SYMBOLS
E1 =0
E2 =0
E3 =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .010 |
| 2 PLACES | ± 0.25 | ± .014 |
| 1 PLACE | ± 0.36 | ± --- |
| 0 PLACE | ± | ± |

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

| | | |
|---|---|---|
| DRAWN BY | SAMIEC | DATE 01/28/92 |
| CHECKED BY | PATEL | DATE 01/28/92 |
| APPROVED BY | LENZ | DATE 01/28/92 |

TITLE: HEADER ASSEMBLY FRICTION LOCK .100 CENTERS

molex

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-43009
SHEET NO.: 1 OF *
SIZE: C

| A-43009-0002/0010 | | | A-43009-0011/0019 | | | A-43009-0056/0064 | | | A-43009-0074/0081 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OPTIONS | **Header No.** | 42009-N | OPTIONS | **Header No.** | 42009-N | OPTIONS | **Header No.** | 42009-N | OPTIONS | **Header No.** | 42009-N |
| | **Pin No.** | 42663-0302 | | **Pin No.** | 42663-0302 | | **Pin No.** | 42663-0307 | | **Pin No.** | 42663-0302 |
| | **Dim. L** | .560/(14.22) | | **Dim. L** | .560/(14.22) | | **Dim. L** | .560/(14.22) | | **Dim. L** | .560/(14.22) |
| | **Dim. X** | .295/(7.49) | | **Dim. X** | .295/(7.49) | | **Dim. X** | .295/(7.49) | | **Dim. X** | .295/(7.49) |
| | **Dim. Z** | .140/(3.56) | | **Dim. Z** | .140/(3.56) | | **Dim. Z** | .140/(3.56) | | **Dim. Z** | .140/(3.56) |
| | **Dim. G** | N/A | | **Dim. G** | N/A | | **Dim. G** | .140/(3.56) | | **Dim. G** | N/A |
| | **Dim. T** | OVERALL | | **Dim. T** | OVERALL | | **Dim. T** | .135/(3.43) | | **Dim. T** | OVERALL |
| | **Plating** | 197 TIN | | **Plating** | 197 TIN | | **Plating** | 231 SGOLD | | **Plating** | 197 TIN |
| | **No. of Ckts** | 2-10 | | **No. of Ckts** | 2-10 | | **No. of Ckts** | 2-10 | | **No. of Ckts** | 3-10 |
| | **Void Ckts** | None | | **Void Ckts** | None | | **Void Ckts** | None | | **Void Ckts** | 2 |
| | **Kink Pins** | No | | **Kink Pins** | Yes | | **Kink Pins** | Yes | | **Kink Pins** | Yes |
| | **Packaging** | **PK-43009-001** | | **Packaging** | **PK-43009-001** | | **Packaging** | **PK-43009-001** | | **Packaging** | **PK-43009-001** |

| Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 22-23-5024 | A-43009-0002 | 2 | 22-23-5021 | A-43009-0011 | 2 | 43009-0056 | A-43009-0056 | 2 | | |
| 3 | 22-23-5034 | A-43009-0003 | 3 | 22-23-5031 | A-43009-0012 | 3 | 43009-0057 | A-43009-0057 | 3 | 43009-0074 | A-43009-0074 |
| 4 | 22-23-5044 | A-43009-0004 | 4 | 22-23-5041 | A-43009-0013 | 4 | 43009-0058 | A-43009-0058 | 4 | 43009-0075 | A-43009-0075 |
| 5 | 22-23-5054 | A-43009-0005 | 5 | 22-23-5051 | A-43009-0014 | 5 | 43009-0059 | A-43009-0059 | 5 | 43009-0076 | A-43009-0076 |
| 6 | 22-23-5064 | A-43009-0006 | 6 | 22-23-5061 | A-43009-0015 | 6 | 43009-0060 | A-43009-0060 | 6 | 43009-0077 | A-43009-0077 |
| 7 | 22-23-5074 | A-43009-0007 | 7 | 22-23-5071 | A-43009-0016 | 7 | 43009-0061 | A-43009-0061 | 7 | 43009-0078 | A-43009-0078 |
| 8 | 22-23-5084 | A-43009-0008 | 8 | 22-23-5081 | A-43009-0017 | 8 | 43009-0062 | A-43009-0062 | 8 | 43009-0079 | A-43009-0079 |
| 9 | 22-23-5094 | A-43009-0009 | 9 | 22-23-5091 | A-43009-0018 | 9 | 43009-0063 | A-43009-0063 | 9 | 43009-0080 | A-43009-0080 |
| 10 | 22-23-5104 | A-43009-0010 | 10 | 22-23-5101 | A-43009-0019 | 10 | 43009-0064 | A-43009-0064 | 10 | 43009-0081 | A-43009-0081 |

| REV: | | TITLE: | SHEET No. |
|---|---|---|---|
| **E1** | **SEE SHEET 1**<br>**5/31/2012** | **HEADER ASSEMBLY FRICTION LOCK**<br>**.100 CENTERS** | **- 2 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SDA-43009** | **MKIPPER** | **BANDERSON** | **FSMITH** |

| A-43009-0082/0089 | | | A-43009-0090/0097 | | | A-43009-0098/0106 | | | A-43009-0107/0115 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OPTIONS | **Header No.** | 42009-N | OPTIONS | **Header No.** | 42009-N | OPTIONS | **Header No.** | 42009-N | OPTIONS | **Header No.** | 42009-N |
| | **Pin No.** | 42663-0302 | | **Pin No.** | 42663-0302 | | **Pin No.** | 42663-0309 | | **Pin No.** | 42663-0309 |
| | **Dim. L** | .560/(14.22) | | **Dim. L** | .560/(14.22) | | **Dim. L** | .560/(14.22) | | **Dim. L** | .560/(14.22) |
| | **Dim. X** | .295/(7.49) | | **Dim. X** | .295/(7.49) | | **Dim. X** | .295/(7.49) | | **Dim. X** | .295/(7.49) |
| | **Dim. Z** | .140/(3.56) | | **Dim. Z** | .140/(3.56) | | **Dim. Z** | .140/(3.56) | | **Dim. Z** | .140/(3.56) |
| | **Dim. G** | N/A | | **Dim. G** | N/A | | **Dim. G** | N/A | | **Dim. G** | N/A |
| | **Dim. T** | OVERALL | | **Dim. T** | OVERALL | | **Dim. T** | OVERALL | | **Dim. T** | OVERALL |
| | **Plating** | 197 TIN | | **Plating** | 197 TIN | | **Plating** | 154 TIN | | **Plating** | 154 TIN |
| | **No. of Ckts** | 3-10 | | **No. of Ckts** | 3-10 | | **No. of Ckts** | 2-10 | | **No. of Ckts** | 2-10 |
| | **Void Ckts** | 3 | | **Void Ckts** | 3 | | **Void Ckts** | None | | **Void Ckts** | None |
| | **Kink Pins** | Yes | | **Kink Pins** | No | | **Kink Pins** | No | | **Kink Pins** | Yes |
| | **Packaging** | **PK-43009-001** | | **Packaging** | **PK-43009-001** | | **Packaging** | **PK-43009-001** | | **Packaging** | **PK-43009-001** |

| Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | | | 2 | | | 2 | 50-34-1986 | A-43009-0098 | 2 | 50-34-1995 | A-43009-0107 |
| 3 | 43009-0082 | A-43009-0082 | 3 | 43009-0090 | A-43009-0090 | 3 | 50-34-1987 | A-43009-0099 | 3 | 50-34-1996 | A-43009-0108 |
| 4 | 43009-0083 | A-43009-0083 | 4 | 43009-0091 | A-43009-0091 | 4 | 50-34-1988 | A-43009-0100 | 4 | 50-34-1997 | A-43009-0109 |
| 5 | 43009-0084 | A-43009-0084 | 5 | 43009-0092 | A-43009-0092 | 5 | 50-34-1989 | A-43009-0101 | 5 | 50-34-1998 | A-43009-0110 |
| 6 | 43009-0085 | A-43009-0085 | 6 | 43009-0093 | A-43009-0093 | 6 | 50-34-1990 | A-43009-0102 | 6 | 50-34-1999 | A-43009-0111 |
| 7 | 43009-0086 | A-43009-0086 | 7 | 43009-0094 | A-43009-0094 | 7 | 50-34-1991 | A-43009-0103 | 7 | 50-30-4401 | A-43009-0112 |
| 8 | 43009-0087 | A-43009-0087 | 8 | 43009-0095 | A-43009-0095 | 8 | 50-34-1992 | A-43009-0104 | 8 | 50-30-4402 | A-43009-0113 |
| 9 | 43009-0088 | A-43009-0088 | 9 | 43009-0096 | A-43009-0096 | 9 | 50-34-1993 | A-43009-0105 | 9 | 50-30-4403 | A-43009-0114 |
| 10 | 43009-0089 | A-43009-0089 | 10 | 43009-0097 | A-43009-0097 | 10 | 50-34-1994 | A-43009-0106 | 10 | 50-30-4404 | A-43009-0115 |

| REV: | | TITLE: | SHEET No. |
|---|---|---|---|
| **E1** | **SEE SHEET 1**<br>**5/31/2012** | **HEADER ASSEMBLY FRICTION LOCK**<br>**.100 CENTERS** | **- 3 -** |

| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SDA-43009** | **MKIPPER** | **BANDERSON** | **FSMITH** |

| A-43009-0125/0130 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OPTIONS | Header No. | 42009-N | OPTIONS | Header No. | | OPTIONS | Header No. | | OPTIONS | Header No. | |
| | Pin No. | 42663-0302 | | Pin No. | | | Pin No. | | | Pin No. | |
| | Dim. L | .560/(14.22) | | Dim. L | | | Dim. L | | | Dim. L | |
| | Dim. X | .295/(7.49) | | Dim. X | | | Dim. X | | | Dim. X | |
| | Dim. Z | .140/(3.56) | | Dim. Z | | | Dim. Z | | | Dim. Z | |
| | Dim. G | N/A | | Dim. G | | | Dim. G | | | Dim. G | |
| | Dim. T | OVERALL | | Dim. T | | | Dim. T | | | Dim. T | |
| | Plating | 197 TIN | | Plating | | | Plating | | | Plating | |
| | No. of Ckts | 5-10 | | No. of Ckts | | | No. of Ckts | | | No. of Ckts | |
| | Void Ckts | 5 | | Void Ckts | | | Void Ckts | | | Void Ckts | |
| | Kink Pins | No | | Kink Pins | | | Kink Pins | | | Kink Pins | |
| | Packaging | PK-43009-001 | | Packaging | PK-43009-001 | | Packaging | PK-43009-001 | | Packaging | PK-43009-001 |

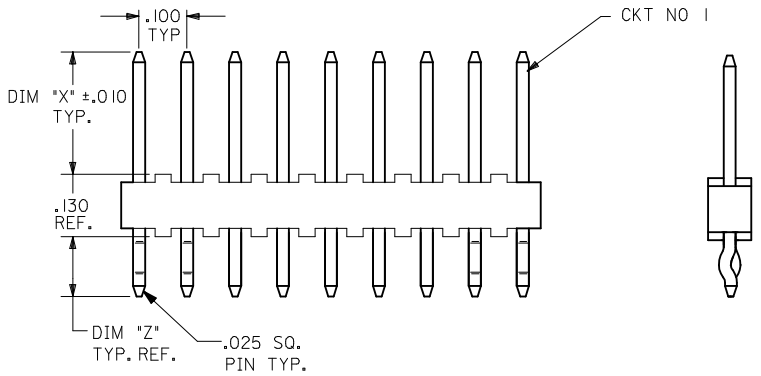
| Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. | Ckt | EDP No. | Engineering No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | | | 2 | | | 2 | | | 2 | | |
| 3 | | | 3 | | | 3 | | | 3 | | |
| 4 | | | 4 | | | 4 | | | 4 | | |
| 5 | | | 5 | | | 5 | | | 5 | | |
| 6 | | | 6 | | | 6 | | | 6 | | |
| 7 | 43009-0127 | A-43009-0127 | 7 | | | 7 | | | 7 | | |
| 8 | | | 8 | | | 8 | | | 8 | | |
| 9 | | | 9 | | | 9 | | | 9 | | |
| 10 | | | 10 | | | 10 | | | 10 | | |

| REV: | | TITLE: | SHEET No. |
|---|---|---|---|
| **E1** | **SEE SHEET 1**<br>**5/31/2012** | **HEADER ASSEMBLY FRICTION LOCK**<br>**.100 CENTERS** | **- 4 -** |

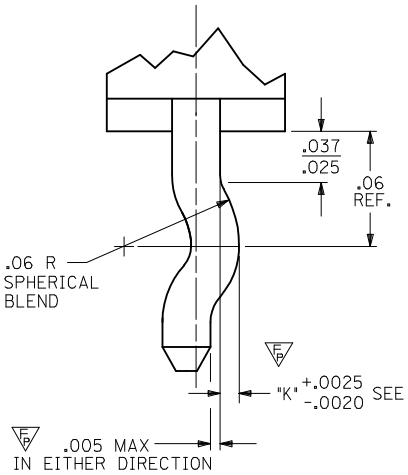
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: |
|---|---|---|---|
| **SDA-43009** | **MKIPPER** | **BANDERSON** | **FSMITH** |

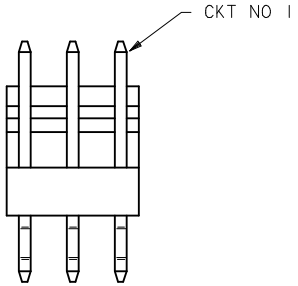
| CKT SIZE | KINK PIN LOCATION | DIM K | KINK PIN DIRECTION |
|---|---|---|---|
| 2 | 1,2 | .010 | OPPOSITE |
| 3 | 1,2,3 | .0075 | OPPOSITE |
| 3 ✳ | 1,3 | .010 | OPPOSITE |
| 4 | 1,2,3,4 | .0075 | OPPOSITE |
| 5 | 1,2,3,4,5 | .0075 | OPPOSITE |
| 6 | 1,2, 5,6 | .0075 | OPPOSITE |
| 7 | 1,2, 6,7 | .0075 | OPPOSITE |
| 8 | 1,2, 7,8 | .0075 | OPPOSITE |
| 9 | 1,2, 8,9 | .0075 | OPPOSITE |
| 10 | 1,2, 9,10 | .0075 | OPPOSITE |
| 11 | 1,2,10,11 | .0075 | OPPOSITE |
| 12 | 1,2,11,12 | .0075 | OPPOSITE |
| 13 | 1,2,12,13 | .0075 | OPPOSITE |
| 14 | 1,2,13,14 | .0075 | OPPOSITE |
| 15 | 1,2,14,15 | .0075 | OPPOSITE |
| 16 | 1,2,15,16 | .0075 | OPPOSITE |
| 17 | 1,2,16,17 | .0075 | OPPOSITE |
| 18 | 1,2,17,18 | .0075 | OPPOSITE |
| 19 | 1,2,18,19 | .0075 | OPPOSITE |
| 20 | 1,2,19,20 | .0075 | OPPOSITE |
| 21 | 1,2,20,21 | .0075 | OPPOSITE |
| 22 | 1,2,21,22 | .0075 | OPPOSITE |
| 23 | 1,2,22,23 | .0075 | OPPOSITE |
| 24 | 1,2,23,24 | .0075 | OPPOSITE |
| 25 | 1,2,24,25 | .0075 | OPPOSITE |
| 26 | 1,2,25,26 | .0075 | OPPOSITE |
| 27 | 1,2,26,27 | .0075 | OPPOSITE |
| 28 | 1,2,27,28 | .0075 | OPPOSITE |
| 29 | 1,2,28,29 | .0075 | OPPOSITE |
| 30 | 1,2,29,30 | .0075 | OPPOSITE |
| 31 | 1,2,30,31 | .0075 | OPPOSITE |
| 32 | 1,2,31,32 | .0075 | OPPOSITE |
| 33 | 1,2,32,33 | .0075 | OPPOSITE |
| 34 | 1,2,33,34 | .0075 | OPPOSITE |
| 35 | 1,2,34,35 | .0075 | OPPOSITE |
| 36 | 1,2,35,36 | .0075 | OPPOSITE |
| 37 | 1,2,36,37 | .0075 | OPPOSITE |
| 38 | 1,2,37,38 | .0075 | OPPOSITE |
| 39 | 1,2,38,39 | .0075 | OPPOSITE |
| 40 | 1,2,39,40 | .0075 | OPPOSITE |

3 CKT PART WITH VOID



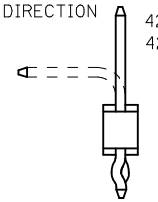

KINKED OPPOSITE DIRECTIONS TYP FOR ALL CKT SIZES



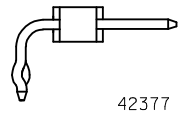

KINK DIRECTION
VIEWED FORM CKT 1

KINK PINS AWAY FROM PIN BEND DIRECTION AS SHOWN



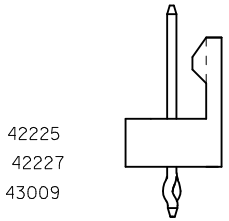

FLAT HEADERS

KINK PINS TOWARD HEADER AS SHOWN

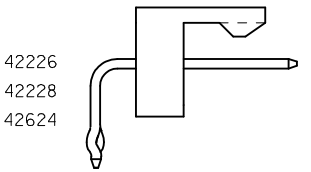



FLAT HEADERS

POLARIZING HEADER / FRICTION LOCK




KINK PINS TOWARD FRICTION LOCK AS SHOWN




KINK PINS AWAY FROM HEADER AS SHOWN

NOTES:
1. DIM. "X" TO BE .250 TO 1.000.
2. DIM "Z" TO BE .135 MIN. TO .250.
3. FOR HEADER ASSEMBLIES THAT HAVE A VOIDED CKT IN A KINKED PIN LOCATION, THE KNIKED PIN LOCATION SHOULD BE MOVED TO THE NEXT CKT.
4. MACHINE MUST BE CAPABLE OF KINKING PINS ON ALL PRODUCTS SHOWN ABOVE.
5. KINK PINS NOT RECOMMENDED FOR 2 CKT. PARTS. PCB HOLE SIZE MAY NEED TO BE ADJUSTED FOR PROPER INSERTION.

ADD QUALITY SYMB 2015/07/15
EC NO: UCP2016-0224 2015/07/15
DRWN: JMONTI
CHKD: MKIPPER
APPR: FSMITH 2015/07/17
DESCRIPTION
REV
B1

QUALITY SYMBOLS
=0
=0
=2

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

ANGULAR ±1/2°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: INCH ONLY
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: JJS DATE: 1996/04/04
CHECKED BY: PATEL DATE: 1996/04/04
APPROVED BY: DATE

TITLE: ENGINEERING STANDARD KINK PINS, .100 CENTER OPPOSITE DIRECTION KINKS

molex

MATERIAL NO.: NONE
DOCUMENT NO.: SMES-43703-0000
SHEET NO.: 1 OF 1

SIZE C