

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0460071306](#)  
**Status:** **Active**  
**Description:** 7.50mm (.295") Pitch Sabre™ Header, Single Row, Right Angle, 6 Circuits, PC Tail Length 5.33mm (.210"), without Snap-In Metal Pins, Tin (Sn) Plating

**Documents:**  
[3D Model](#)  
[Packaging Specification \(PDF\)](#)  
[Drawing \(PDF\)](#)  
[Product Specification PSX-44441-9999 \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

UL E29179

**General**

Product Family PCB Headers  
Series [46007](#)  
Application Wire-to-Board  
Comments Fully Polarized, Meets UL 1950 Finger Proof Standard  
Product Literature Order No USA-113  
Product Name Sabre™

**Physical**

Breakaway No  
Circuits (Loaded) 6  
Circuits (maximum) 6  
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 None  
Lock to Mating Part Yes  
Material - Metal Brass  
Material - Plating Mating Tin  
Material - Plating Termination Tin  
Material - Resin High Temperature Thermoplastic  
Number of Rows 1  
Orientation Right Angle  
PC Tail Length (in) 0.210 In  
PC Tail Length (mm) 5.33 mm  
PCB Locator No  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.093 In  
PCB Thickness Recommended (mm) 3.20 mm  
Packaging Type Tray  
Pitch - Mating Interface (in) 0.295 In  
Pitch - Mating Interface (mm) 7.50 mm  
Plating min: Mating (µin) 35  
Plating min: Mating (µm) 0.88  
Plating min: Termination (µin) 35  
Plating min: Termination (µm) 0.88  
Polarized to Mating Part Yes  
Polarized to PCB Yes  
Shrouded Fully  
Stackable No

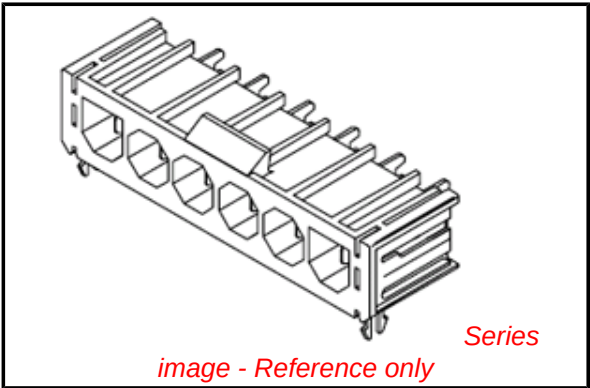


image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Not Reviewed**  
**Halogen-Free  
Status**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto: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**  
[46007Series](#)

**Mates With**  
[44441-2006](#)

|                                |                |
|--------------------------------|----------------|
| Surface Mount Compatible (SMC) | No             |
| Temperature Range - Operating  | -40°C to +75°C |
| Termination Interface: Style   | Through Hole   |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 18A  |
| Voltage - Maximum             | 600V |

**Material Info**

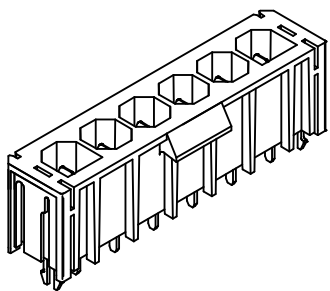
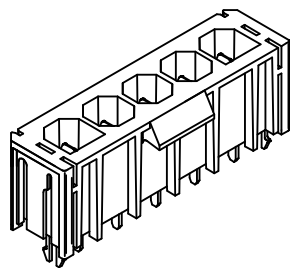
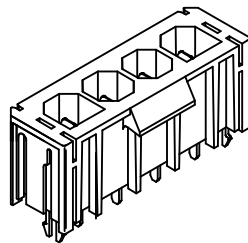
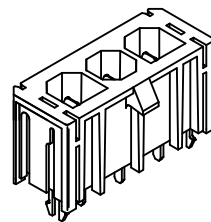
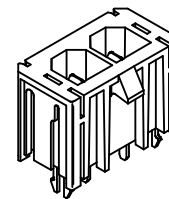
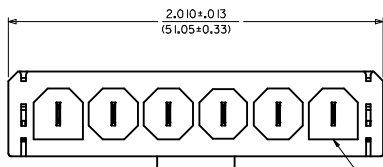
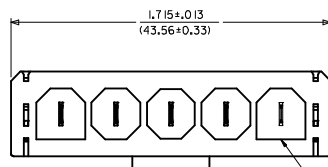
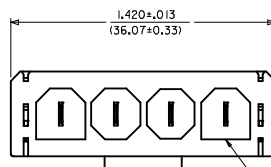
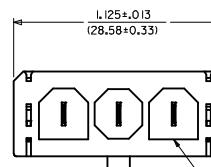
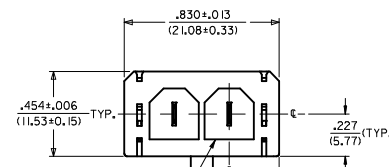
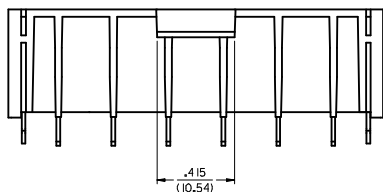
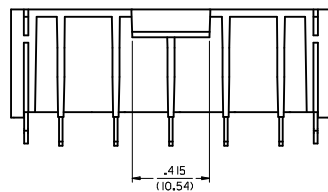
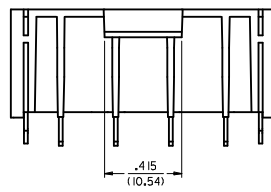
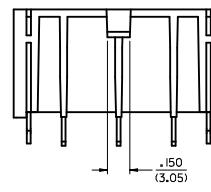
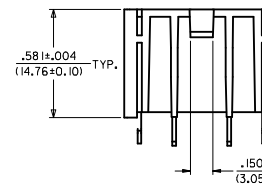
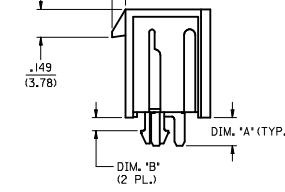
**Reference - Drawing Numbers**

|                       |                |
|-----------------------|----------------|
| Product Specification | PSX-44441-9999 |
| Sales Drawing         | SD-46007-001   |

This document was generated on 04/21/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

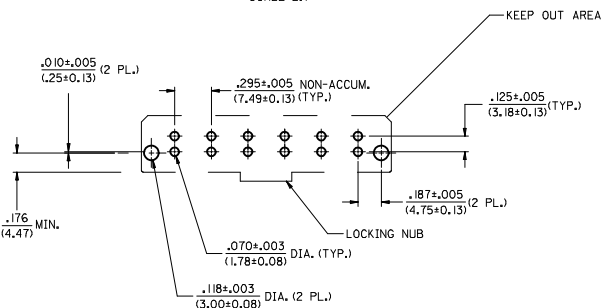
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



SEE SHEET 2 AND 3 FOR ITEM NUMBER CHART

## RECOMMENDED P.C. BOARD LAYOUT FOR VERTICAL HEADERS

SCALE 2:1



6 CIRCUIT LAYOUT SHOWN

### NOTES:

- INSULATOR MATERIAL (SEE CHART):  
A = 30% GLASS FILLED 46 NYLON, 94V-0, COLOR: BLACK.  
TERMINAL MATERIAL: C26000 BRASS.
- TERMINAL FINISH: 35 MICROINCH (0.88 MICROMETER) MINIMUM TIN OVER  
20 MICROINCH (0.50 MICROMETER) MINIMUM COPPER.  
\* THE PRIMARY SHIPPING CARTON WILL BE LABELED  
"COMPLIANT TO RoHS DIRECTIVE 2002/95/EC  
AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."  
CARTONS WITHOUT THIS LABEL MAY CONTAIN  
PRODUCT WITH TIN-LEAD IN THE PC TAILS.
- PRODUCT SPECIFICATION: PSX-44441-9999.
- PACKAGING: SEE CHART.
- THESE HEADERS MATE WITH 43179, 43335, OR 44441 RECEPTACLE HOUSINGS.
- UL 1950 COMPLIANT 46007 SERIES HEADERS ARE SIMILAR TO STANDARD LINE  
43160 SERIES HEADERS EXCEPT HAVING TERMINALS WHICH ARE RECESSED  
MORE TO ALLOW HEADERS TO MEET UL 1950 PROBE REQUIREMENTS.
- SEE SHEETS 1, 2 AND 3 FOR VERTICAL HEADER ASSEMBLY AND THEIR  
RESPECTIVE PART NUMBERS.
- SEE SHEETS 4, 5 AND 6, FOR RIGHT ANGLE HEADER ASSEMBLIES AND  
THEIR RESPECTIVE PART NUMBERS.
- TERMINALS ARE ON .295/(7.49) CENTERLINE SPACING.
- DIMENSIONS ARE FOR REFERENCE ONLY, UNLESS INDICATED OTHERWISE.

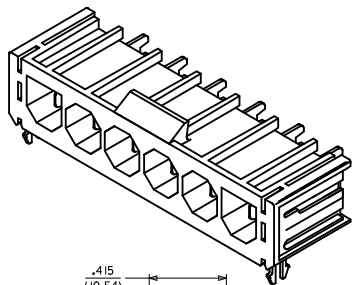
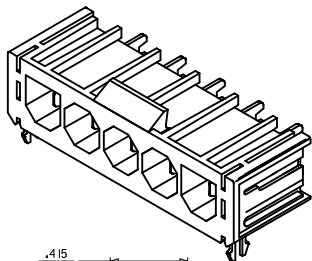
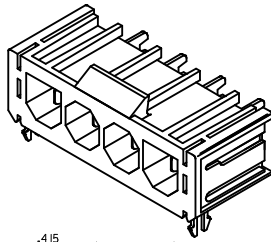
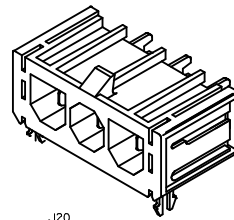
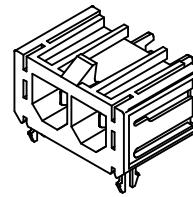
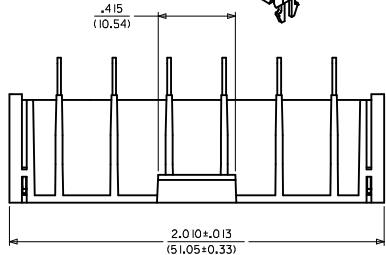
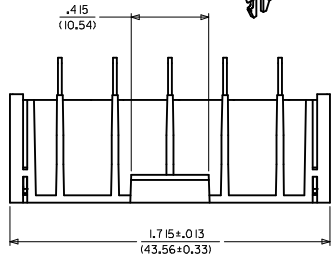
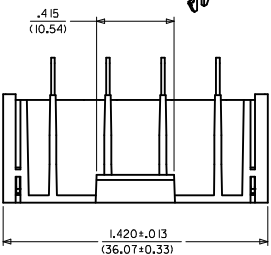
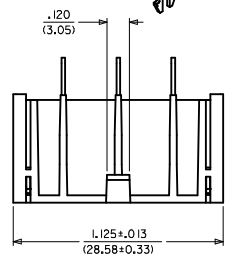
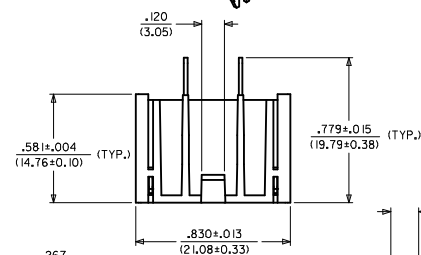
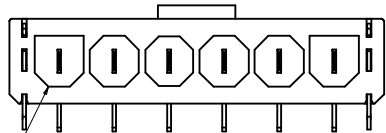
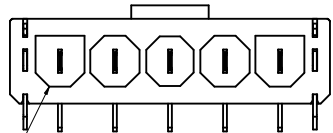
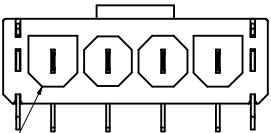
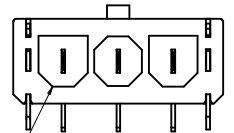
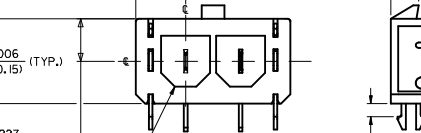
| SOLDER TAIL | DIM. "A" ±.020/(0.51) |
|-------------|-----------------------|
| SHORT       | .150/(3.81)           |
| LONG        | .210/(5.33)           |

| BOARD LOCK | DIM. "B" ±.004/(0.15) |
|------------|-----------------------|
| .062       | .070/(1.78)           |
| .094       | .102/(2.59)           |
| .125       | .133/(3.38)           |

|   |   |
|---|---|
| 6 | C |
| 5 | C |
| 4 | C |
| 3 | C |
| 2 | C |
| 1 | C |

SMT. REV.

|                                                                                                                                                     |                             |                                                                                                                                                                                                                                   |                                                                                                                                                                        |                                                                |                                                                                                 |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|
| REMOVE 94V-2 MAT'L<br>EC NO: UCP2009-0067<br>DRAWN: KOSTERMEIER 2009/03/05<br>CHKD: AELHAG 2009/03/05<br>APPR: FSW TH 2009/03/05<br>REV DESCRIPTION | QUALITY SYMBOLS<br>=0<br>=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .005<br>2 PLACES ± 0.13 ± .01<br>1 PLACE ± 0.25 ± ---<br>ANGULAR ±1/2°<br>DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS | DIMENSION STYLE<br>IN/MM<br>DRAWN BY<br>CSTEWART<br>CHECKED BY<br>DATE<br>04/28/05<br>APPROVED BY<br>DATE<br>MATERIAL NO.<br>SEE CHART<br>DOCUMENT NO.<br>SD-46007-001 | SCALE<br>3:1<br>DESIGN UNITS<br>INCH<br>THIRD ANGLE PROJECTION | TITLE<br>SABRE HEADER ASSY<br>VERTICAL, 2-6 & 8 CIR.<br>UL 1950 COMPLIANT<br>MOLEX INCORPORATED | SHEET NO.<br>1 OF 6 |
|                                                                                                                                                     |                             |                                                                                                                                                                                                                                   |                                                                                                                                                                        |                                                                |                                                                                                 |                     |



CIRCUIT 1

CIRCUIT 1

CIRCUIT 1

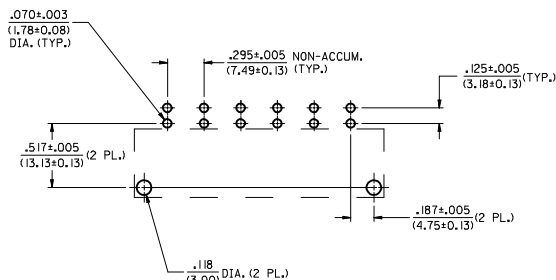
CIRCUIT 1

CIRCUIT 1

SEE SHEET 5 AND 6 FOR ITEM NUMBER CHART

### RECOMMENDED P.C. BOARD LAYOUT FOR RIGHT ANGLE HEADERS

SCALE 2:1



6 CIRCUIT LAYOUT SHOWN

#### NOTES:

- INSULATOR MATERIAL (SEE CHART)  
A = 30% GLASS-FILLED 46 NYLON-0, COLOR: BLACK  
TERMINAL MATERIAL: C26000 BRASS
- TERMINAL FINISH: 35 MICROINCH (0.88 MICROMETER) MINIMUM TIN OVER  
20 MICROINCH (0.50 MICROMETER) MINIMUM COPPER.  
\* THE PRIMARY SHIPPING CARTON WILL BE LABELED  
"COMPLIANT TO RoHS DIRECTIVE 2002/95/EC  
AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."  
CARTONS WITHOUT THIS LABEL MAY CONTAIN  
PRODUCT WITH TIN-LEAD IN THE PC TAILS.
- PRODUCT SPECIFICATION: PSX-44441-9999.
- PACKAGING: SEE CHART.
- THESE HEADERS MATE WITH 43179, 43335, OR 44441 RECEPTACLE HOUSINGS.
- UL 1950 COMPLIANT 46007 SERIES HEADERS ARE SIMILAR TO STANDARD LINE  
43160 SERIES HEADERS EXCEPT HAVING TERMINALS WHICH ARE RECESSED  
MORE TO ALLOW HEADERS TO MEET UL 1950 PROBE REQUIREMENTS.
- SEE SHEETS 1, 2 AND 3 FOR VERTICAL HEADER ASSEMBLIES AND THEIR  
RESPECTIVE PART NUMBERS.
- SEE SHEETS 4, 5 AND 6 FOR RIGHT ANGLE HEADER ASSEMBLIES AND  
THEIR RESPECTIVE PART NUMBERS.
- TERMINALS ARE ON .295/(7.49) CENTERLINE SPACING.
- DIMENSIONS ARE FOR REFERENCE ONLY, UNLESS INDICATED OTHERWISE.

| SOLDER TAIL | DIM. 'A' ±.011/(0.28) |
|-------------|-----------------------|
| SHORT       | .150/(3.81)           |
| LONG        | .210/(5.33)           |

| BOARD LOCK | DIM. 'B' ±.004/(0.10) |
|------------|-----------------------|
| .062       | .070/(1.78)           |
| .094       | .102/(2.59)           |
| .125       | .133/(3.38)           |

|                                                                                                                                   |                               |                                                            |  |                                                                                                                               |  |                          |  |                      |  |                        |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|----------------------|--|------------------------|
| REMOVE 94V-2 MATL<br>EC NO: UCP2009-0067<br>DRAWN: KLOSTERMEIER 2009/03/05<br>CHKD: AELHAG 2009/03/05<br>APPROV: SMITH 2009/03/05 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>IN/MM                                                                                                      |  | SCALE<br>3:1             |  | DESIGN UNITS<br>INCH |  | THIRD ANGLE PROJECTION |
|                                                                                                                                   |                               | mm INCH                                                    |  | DRAWN BY DATE                                                                                                                 |  | TITLE                    |  |                      |  |                        |
|                                                                                                                                   |                               | 4 PLACES ± --- ± ---                                       |  | CSTEWART 04/29/05                                                                                                             |  | SABRE HEADER ASSY        |  |                      |  |                        |
|                                                                                                                                   |                               | 3 PLACES ± --- ± .005                                      |  | CHECKED BY DATE                                                                                                               |  | RT. ANGLE, 2-6 & 8 CIR.  |  |                      |  |                        |
|                                                                                                                                   |                               | 2 PLACES ± 0.13 ± .01                                      |  | BWIRKUS                                                                                                                       |  | UL 1950 COMPLIANT        |  |                      |  |                        |
|                                                                                                                                   |                               | 1 PLACE ± 0.25 ± ---                                       |  | APPROVED BY DATE                                                                                                              |  | MOLEX MOLEX INCORPORATED |  |                      |  |                        |
|                                                                                                                                   |                               | ANGULAR ± 1/2°                                             |  | BWIRKUS                                                                                                                       |  | MOLEX                    |  |                      |  |                        |
|                                                                                                                                   |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | MATERIAL NO.                                                                                                                  |  | DOCUMENT NO.             |  | SHEET NO.            |  |                        |
|                                                                                                                                   |                               |                                                            |  | SEE CHART                                                                                                                     |  | SD-46007-001             |  | 4 OF 6               |  |                        |
|                                                                                                                                   |                               | REV                                                        |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                          |  |                      |  |                        |

|   |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|---|--------------------------------|---------------------------------------------|----------------|---------------|------|-----------------------------|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|
|   | 20                             | 19                                          | 18             | 17            | 16   | 15                          | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |   |
| M | RT. ANGLE<br>HEADER<br>ITEM NO | PART CHARACTERISTICS FOR RIGHT ANGLE HEADER |                |               |      | PACKAGING<br>SPECIFICATIONS |    |    |    |    |    |   |   |   |   |   |   |   |   |   | M |
|   | CIRCUIT<br>SIZE                | HSG. MAT'L<br>(SEE NOTE 1)                  | SOLDER<br>TAIL | BOARD<br>LOCK |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 46007-1102                     | 2                                           | A              | SHORT         | N/A  | PK-43160-0010               |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 46007-1302                     | 2                                           | A              | LONG          | N/A  | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
| L | 46007-3102                     | 2                                           | A              | SHORT         | .062 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 46007-5102                     | 2                                           | A              | SHORT         | .094 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   | L |
|   | 46007-5302                     | 2                                           | A              | LONG          | .094 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 46007-7302                     | 2                                           | A              | LONG          | .125 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
| K | 46007-1103                     | 3                                           | A              | SHORT         | N/A  | PK-43160-0010               |    |    |    |    |    |   |   |   |   |   |   |   |   |   | K |
|   | 46007-1303                     | 3                                           | A              | LONG          | N/A  | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 46007-3103                     | 3                                           | A              | SHORT         | .062 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
|   | 46007-5103                     | 3                                           | A              | SHORT         | .094 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
| J | 46007-5303                     | 3                                           | A              | LONG          | .094 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   | J |
|   | 46007-7303                     | 3                                           | A              | LONG          | .125 | PK-43789-001                |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |
| I |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | I |
| H |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | H |
| G |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | G |
| F |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | F |
| E |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | E |
| D |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | D |
| C |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | C |
| B |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | B |
| A |                                |                                             |                |               |      |                             |    |    |    |    |    |   |   |   |   |   |   |   |   |   | A |

REMOVE 94V-2 P/NS  
EC NO: UCP2009-0067  
DRAWN: KLOSTERMEIER 2009/03/05  
CHKD: AEL-HAG 2009/03/05  
APPR: FSW LTH 2009/03/05

REV  
DESCRIPTION

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

IN/MM

DRAWN BY  
CSTEWART

DATE  
04/29/05

CHECKED BY  
BWIRKUS

DATE

APPROVED BY  
BWIRKUS

DATE

MATERIAL NO.

SEE CHART

DOCUMENT NO.  
SD-46007-001

SHEET NO.  
5 OF 6

SCALE  
1:1

DESIGN UNITS  
INCH

THIRD ANGLE  
PROJECTION

TITLE  
SABRE HEADER ASSY  
RT. ANGLE, 2-6 & 8 CIR.  
UL 1950 COMPLIANT

MOLEX INCORPORATED

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