molex
one company > a world of innovation

This document was generated on 04/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

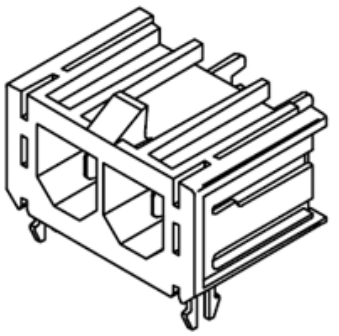
Part Number: 0460077302

Status: Active

Description: 7.50mm (.295") Pitch Sabre™ Header, Single Row, Right Angle, 2 Circuits, PC Tail Length 5.33mm (.210"), with 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)



Series image - Reference only

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)	2
Circuits (maximum)	2
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)	0.125 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

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
46007Series

Mates With
44441-2002

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

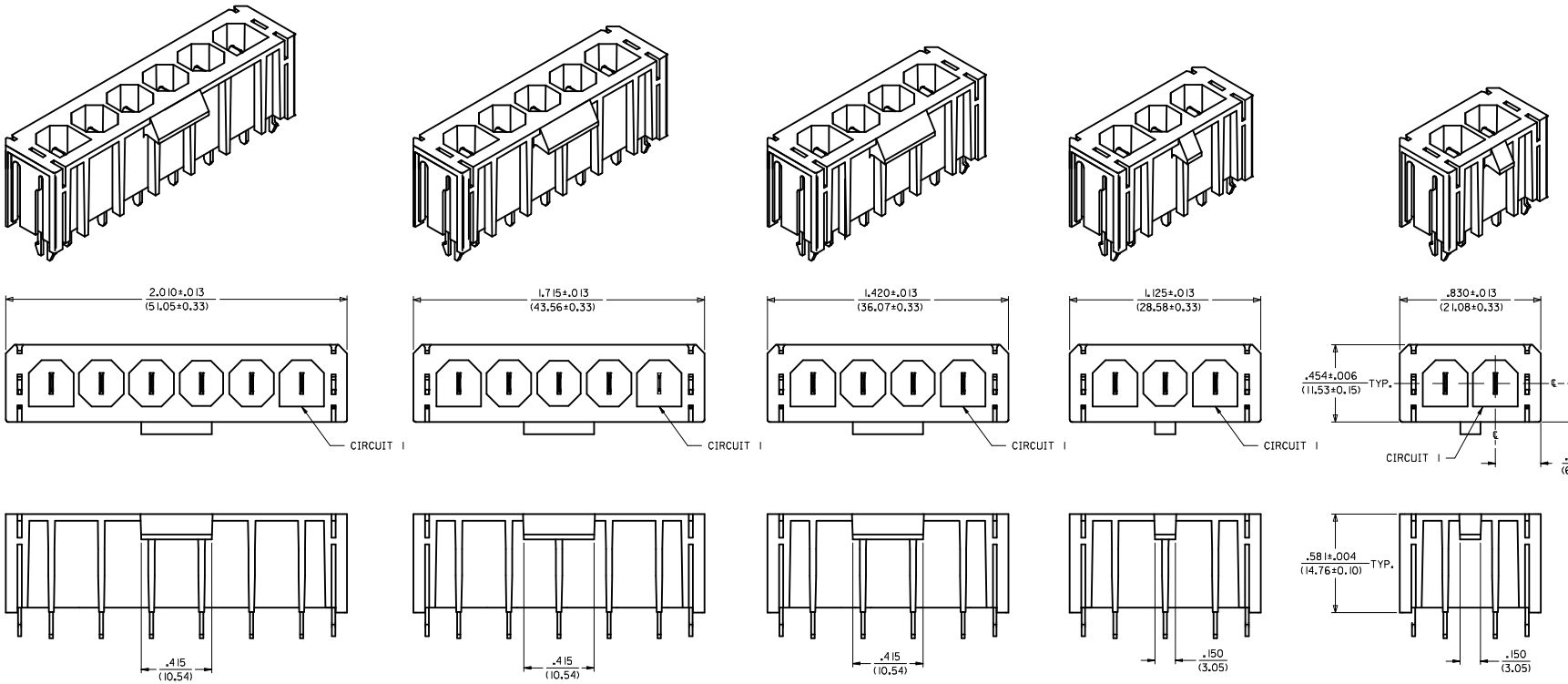
Material Info

Reference - Drawing Numbers

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

This document was generated on 04/21/2010

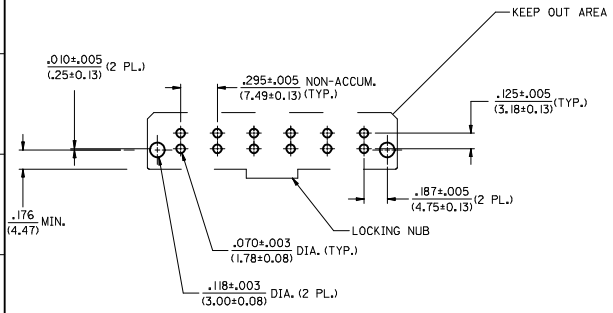
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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:

1. INSULATOR MATERIAL (SEE CHART):
   A = 30% GLASS FILLED 46 NYLON, 94V-0, COLOR: BLACK.
   TERMINAL MATERIAL: C26000 BRASS
2. 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.
3. PRODUCT SPECIFICATION: PSX-44441-9999.
4. PACKAGING: SEE CHART.
5. THESE HEADERS MATE WITH 43179, 43335, OR 44441 RECEPTACLE HOUSINGS.
6. 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.
7. SEE SHEETS 1, 2 AND 3 FOR VERTICAL HEADER ASSEMBLY AND THEIR RESPECTIVE PART NUMBERS.
8. SEE SHEETS 4, 5 AND 6, FOR RIGHT ANGLE HEADER ASSEMBLIES AND THEIR RESPECTIVE PART NUMBERS.
9. TERMINALS ARE ON .295/(7.49) CENTERLINE SPACING.
10. 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)

SHT.	REV.
6	C
5	C
4	C
3	C
2	C
1	C

REMOVE 94V-2 MAT'L
EC NO: UCP2009-0067
DRWN: JKLOSTERMEIER 2009/03/05
CH'KD: AELHAG 2009/03/05
APPR: FSMITH 2009/03/05
DESCRIPTION
REV C

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
SCALE: 3:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: CSTEWART 04/28/05
CHECKED BY: DATE
APPROVED BY: DATE

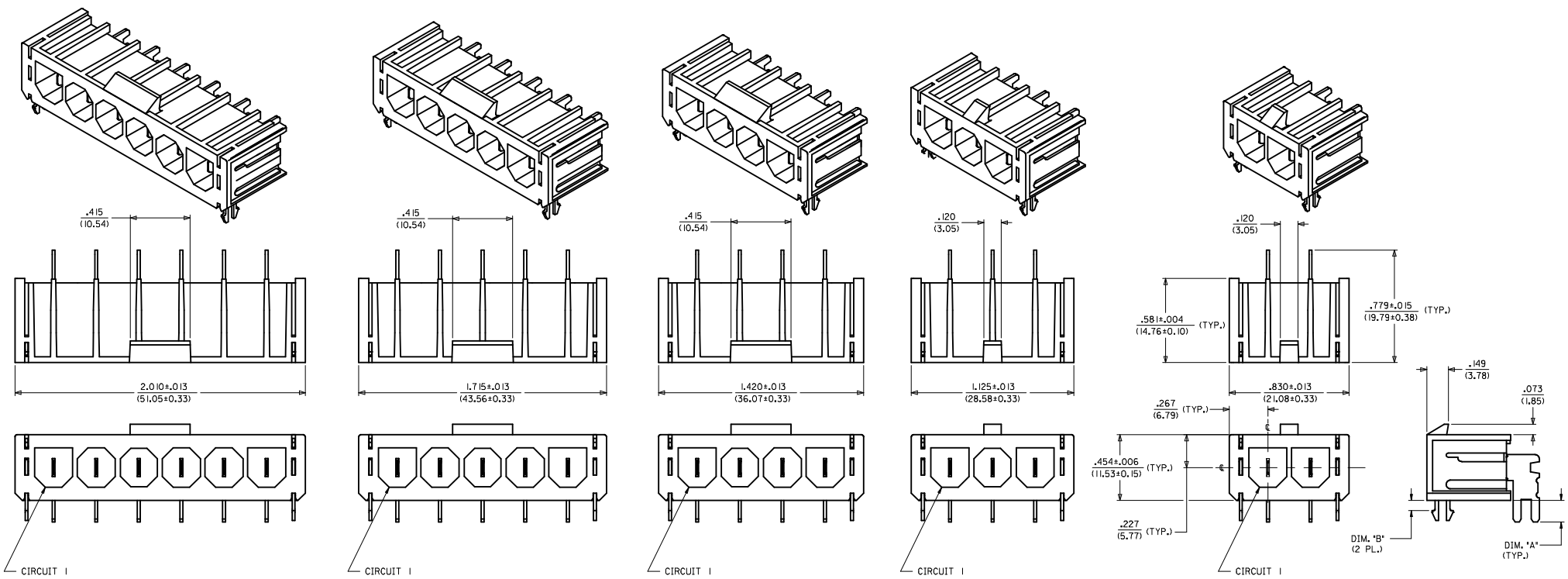
TITLE: SABRE HEADER ASSY VERTICAL, 2-6 & 8 CIR. UL 1950 COMPLIANT

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-46007-001
SHEET NO.: 1 OF 6

SIZE: D

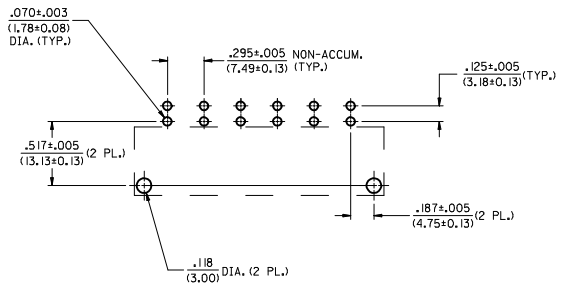
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



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:

1. INSULATOR MATERIAL (SEE CHART):
   A = 30% GLASS-FILLED 46 NYLON, 94V-0. COLOR: BLACK
   TERMINAL MATERIAL: C26000 BRASS
2. 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.
3. PRODUCT SPECIFICATION: PSX-44441-9999.
4. PACKAGING: SEE CHART.
5. THESE HEADERS MATE WITH 43179, 43335, OR 44441 RECEPTACLE HOUSINGS.
6. 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.
7. SEE SHEETS 1, 2 AND 3 FOR VERTICAL HEADER ASSEMBLIES AND THEIR RESPECTIVE PART NUMBERS.
8. SEE SHEETS 4, 5 AND 6 FOR RIGHT ANGLE HEADER ASSEMBLIES AND THEIR RESPECTIVE PART NUMBERS.
9. TERMINALS ARE ON .295/(7.49) CENTERLINE SPACING.
10. 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
EC NO: UCP2009-0067
DRWN: JKLOSTERMEIER 2009/03/05
CH'KD: AELHAG 2009/03/05
APPR: FSMITH 2009/03/05
DESCRIPTION
REV: C

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
SCALE: 3:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: CSTEWART DATE: 04/29/05
CHECKED BY: BWIRKUS DATE:
APPROVED BY: BWIRKUS DATE:
MATERIAL NO.: SEE CHART

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

MOLEX INCORPORATED

DOCUMENT NO.: SD-46007-001
SHEET NO.: 4 OF 6

SIZE: D

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

RT. ANGLE HEADER ASSEMBLY ITEM NO	PART CHARACTERISTICS FOR RIGHT ANGLE HEADER				PACKAGING SPECIFICATIONS
	CIRCUIT SIZE	HSG. MAT'L (SEE NOTE 1)	SOLDER TAIL	BOARD LOCK	
46007-1102	2	A	SHORT	N/A	PK-43160-0010
46007-1302	2	A	LONG	N/A	PK-43789-001
46007-3102	2	A	SHORT	.062	PK-43789-001
46007-5102	2	A	SHORT	.094	PK-43789-001
46007-5302	2	A	LONG	.094	PK-43789-001
46007-7302	2	A	LONG	.125	PK-43789-001
46007-1103	3	A	SHORT	N/A	PK-43160-0010
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
46007-5303	3	A	LONG	.094	PK-43789-001
46007-7303	3	A	LONG	.125	PK-43789-001

RT. ANGLE HEADER ASSEMBLY ITEM NO.	PART CHARACTERISTICS FOR RIGHT ANGLE HEADER				PACKAGING SPECIFICATIONS
	CIRCUIT SIZE	HSG. MAT'L (SEE NOTE 1)	SOLDER TAIL	BOARD LOCK	
46007-1104	4	A	SHORT	N/A	PK-43160-0010
46007-1304	4	A	LONG	N/A	PK-43789-001
46007-3104	4	A	SHORT	.082	PK-43789-001
46007-5104	4	A	LONG	.094	PK-43789-001
46007-5304	4	A	LONG	.125	PK-43789-001
46007-7304	5	A	SHORT	N/A	PK-43160-0010
46007-1105	5	A	LONG	N/A	PK-43789-001
46007-1305	5	A	SHORT	.062	PK-43789-001
46007-3105	5	A	SHORT	.094	PK-43789-001
46007-5105	5	A	LONG	.094	PK-43789-001
46007-5305	5	A	LONG	.125	PK-43789-001
46007-7305	5	A	LONG	.125	PK-43789-001

RT. ANGLE HEADER ASSEMBLY ITEM NO.	PART CHARACTERISTICS FOR RIGHT ANGLE HEADER				PACKAGING SPECIFICATIONS
	CIRCUIT SIZE	HSG. MAT'L (SEE NOTE 1)	SOLDER TAIL	BOARD LOCK	
46007-1106	6	A	SHORT	N/A	PK-43160-0010
46007-1306	6	A	LONG	N/A	PK-43789-001
46007-3106	6	A	SHORT	.062	PK-43789-001
46007-5106	6	A	SHORT	.094	PK-43789-001
46007-5306	6	A	LONG	.094	PK-43789-001
46007-7306	6	A	LONG	.125	PK-43789-001

REMOVE 94V-2 P/N'S
EC NO: UCP2009-0067
DRWN: JKLOSTERMEIER 2009/03/05
CH'KD: AELHAG 2009/03/05
APPR: FSMITH 2009/03/05
DESCRIPTION
REV C

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
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

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
SIZE: D

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