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ELECTRONICS

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Jameco Part Number 1300419

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 6 circuits
- Surface Mount Compatible
- Optional board lock features offered in 1.57, 2.36, and 3.18mm (.062, .093, and .125) lengths
- Positive lock
- Fully polarized
- Wire-to-board

Reference Information

Product Specification: PS-44441-9999

Packaging: Bag and tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: [44441](#) housing

Designed In: Inches

Electrical

Voltage: 1000V

Current: 18.0A max.*

Contact Resistance: 10mΩ max.

Dielectric Withstanding Voltage: 5000V

Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion Force to PCB: 5 lb max.

Normal Force: 3 lb nominal

Durability: 25 cycles

Physical

Housing: Black glass-filled nylon, UL 94V-0

Contact: Brass

Plating: Tin

Operating Temperature: -40 to +75°C

PCB Thickness: 1.57, 2.36, 3.18mm (.062, .093 and .125")

* Depending on circuit size, wire gauge and PCB. Please refer to product specification.

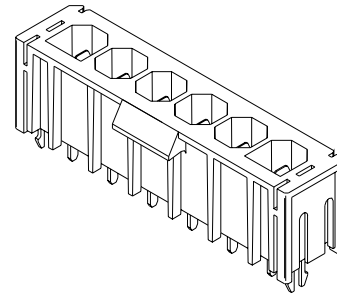


7.50mm (.295") Pitch

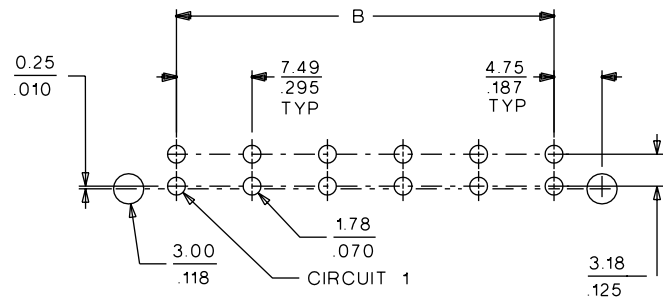
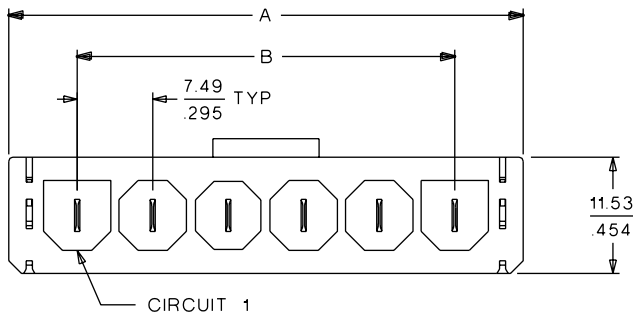
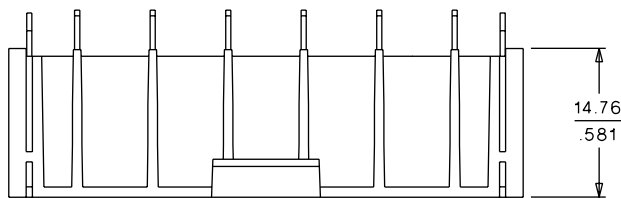
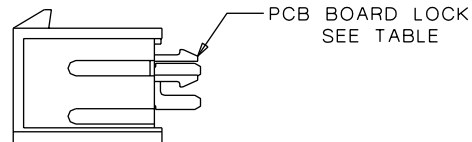
Sabre™

Wire-to-Board
Header

43160

Vertical, Single Row, SMC
With and without Board Lock

CATALOG DRAWING (FOR REFERENCE ONLY)

PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: SEE TABLEPCB BOARD LOCK
SEE TABLE

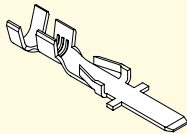
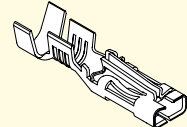
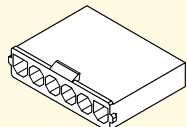
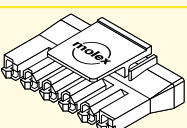
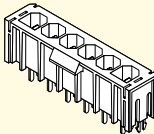
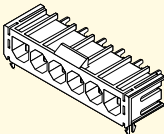
ORDERING INFORMATION AND DIMENSIONS

Without Board Lock				
Circuits	Order No.	Dimension		
		A	B	C
2	43160-0102	21.08 (.830)	7.49 (.295)	3.81 (.150)
2	43160-0302	21.08 (.830)	7.49 (.295)	5.33 (.210)
3	43160-0103	28.58 (1.125)	14.99 (.590)	3.81 (.150)
3	43160-0303	28.58 (1.125)	14.99 (.590)	5.33 (.210)
4	43160-0104	36.07 (1.420)	22.48 (.885)	3.81 (.150)
4	43160-0304	36.07 (1.420)	22.48 (.885)	5.33 (.210)
5	43160-0105	43.56 (1.715)	29.97 (1.180)	3.81 (.150)
5	43160-0305	43.56 (1.715)	29.97 (1.180)	5.33 (.210)
6	43160-0106	51.05 (2.010)	37.47 (1.475)	3.81 (.150)
6	43160-0306	51.05 (2.010)	37.47 (1.475)	5.33 (.210)

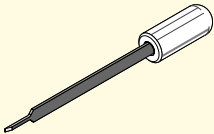
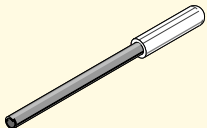
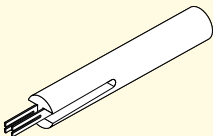
With Board Lock					
Circuits	Order No.	PCB Thickness	Dimension		
			A	B	C
2	43160-2102	.062	21.08 (.830)	7.49 (.295)	3.81 (.150)
2	43160-4302	.093	21.08 (.830)	7.49 (.295)	5.33 (.210)
2	43160-6302	.125	21.08 (.830)	7.49 (.295)	5.33 (.210)
3	43160-2103	.062	28.58 (1.125)	14.99 (.590)	3.81 (.150)
3	43160-4303	.093	28.58 (1.125)	14.99 (.590)	5.33 (.210)
3	43160-6303	.125	28.58 (1.125)	14.99 (.590)	5.33 (.210)
4	43160-2104	.062	36.07 (1.420)	22.48 (.885)	3.81 (.150)
4	43160-4304	.093	36.07 (1.420)	22.48 (.885)	5.33 (.210)
4	43160-6304	.125	36.07 (1.420)	22.48 (.885)	5.33 (.210)
5	43160-2105	.062	43.56 (1.715)	29.97 (1.180)	3.81 (.150)
5	43160-4305	.093	43.56 (1.715)	29.97 (1.180)	5.33 (.210)
5	43160-6305	.125	43.56 (1.715)	29.97 (1.180)	5.33 (.210)
6	43160-2106	.062	51.05 (2.010)	37.47 (1.475)	3.81 (.150)
6	43160-4306	.093	51.05 (2.010)	37.47 (1.475)	5.33 (.210)
6	43160-6306	.125	51.05 (2.010)	37.47 (1.475)	5.33 (.210)

molex® 7.50mm (.295") Pitch
Sabre™

- Wire-to-Wire (Free Hanging Only)
- Wire-to-Board
- Patented Terminal Position Assurance (TPA) feature
- Voltage: 1000V
- Current: 18.0A

	Series	Description	Mates With / Use With	Material	Circuits / Wire Gauge	Features and Benefits
Terminals						
	43178	Male Terminal	Mates with 43375 Terminals Used in 43680 Housings	Tin Plated Brass	14 to 18 AWG	■ Used in wire-to-wire applications only ■ Patented integral Terminal Position Assurance (TPA) on mated male and female terminals. Activation is optional. Virtually eliminates terminal backouts from housing
	43375	Female Terminal	Mates with 43178 Terminal and 43160 Headers Used in 44441 Housings			■ Used in wire-to-wire and wire-to-board applications ■ Patented integral Terminal Position Assurance (TPA) on mated male and female terminals. Activation is optional. Virtually eliminates terminal backouts from housing
Housings						
	43680	Plug Housing	44441	Nylon, UL 94V-0	2, 3, 4, 5, and 6 Circuits	■ Fully isolated towers gives 1000V rating ■ Polarized housings assure proper mating ■ Positive latch system guards against accidental disengagement of housings
	44441	Receptacle Housing	43680 and 43160			
PC Board Headers						
	43160	Vertical Header	44441	Glass-filled Nylon, UL 94V-0	2, 3, 4, 5 and 6 Circuits	■ Surface Mount compatible ■ Optional PCB retention clips ■ Accommodates 1.57, 2.36, and 3.18mm (.062, .093, and .125")
	43160	Right Angle Header	44441			

Terminal TPA Activation / Deactivation and Extraction Hand Tools

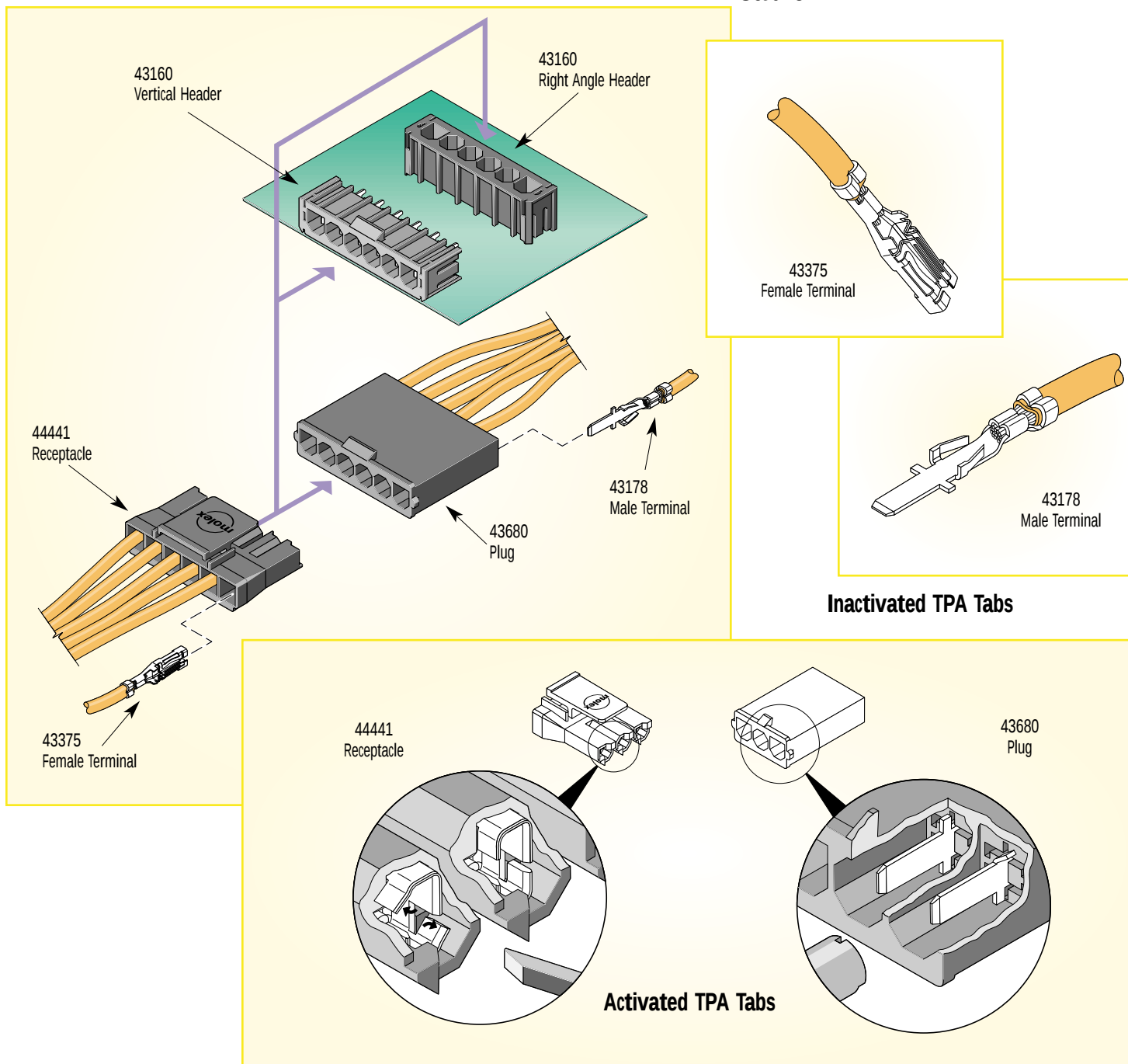
	Order No.	Used With	Features and Benefits
	63813-0500	44441 Receptacle Housing 43375 Female Terminal	■ Female Terminal Extraction / TPA Activation / TPA De-Activation Hand Tool
	63813-0600	43680 Plug Housing 43178 Male Terminal	■ Male Terminal TPA Activation / TPA De-Activation Hand Tool
	63813-0800	43680 Plug Housing 43178 Male Terminal	■ Male Terminal Extraction Hand Tool



7.50mm (.295") Pitch
Sabre™

7.50mm (.295") Pitch **Sabre™**

7.50mm (.295") Pitch
Sabre™



APPLICATION EXAMPLES

- | | | |
|--------------------------|----------------------|--------------------------------|
| ■ HVAC | ■ Home Entertainment | ■ Lighting |
| ■ Office Equipment | ■ Medical Equipment | ■ Factory Automation Equipment |
| ■ Automotive Aftermarket | ■ Appliance | ■ Power Supplies |
| ■ Networking Equipment | ■ UPS Systems | ■ Work Stations |

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PRODUCT SPECIFICATION SABRE

(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

1.0 SCOPE:

THIS SPECIFICATION COVERS THE 7.50 MM (.295 INCH) CENTERLINE TIN AND TIN/LEAD PLATED CONNECTOR SERIES TERMINATED WITH 18 TO 14 AWG WIRE USING CRIMP TECHNOLOGY.

2.0 PRODUCT DESCRIPTION:

2.1 PRODUCT NAME AND PART NUMBER

PRODUCT NAME	PART NUMBER
Plug Housing, 2 circuit	43680-2002
Plug Housing, 3 circuit	43680-2003
Plug Housing, 4 circuit	43680-2004
Plug Housing, 5 circuit	43680-2005
Plug Housing, 6 circuit	43680-2006
Right Angle Header, 2 circuit	(SEE SDA-43160-***)
Right Angle Header, 3 circuit	(SEE SDA-43160-***)
Right Angle Header, 4 circuit	(SEE SDA-43160-***)
Right Angle Header, 5 circuit	(SEE SDA-43160-***)
Right Angle Header, 6 circuit	(SEE SDA-43160-***)
Vertical Header, 2 circuit	(SEE SDA-43160-***)
Vertical Header, 3 circuit	(SEE SDA-43160-***)
Vertical Header, 4 circuit	(SEE SDA-43160-***)
Vertical Header, 5 circuit	(SEE SDA-43160-***)
Vertical Header, 6 circuit	(SEE SDA-43160-***)
Receptacle Housing, 2 circuit	44441-2002
Receptacle Housing, 3 circuit	44441-2003
Receptacle Housing, 4 circuit	44441-2004
Receptacle Housing, 5 circuit	44441-2005
Receptacle Housing, 6 circuit	44441-2006
Male Tab Crimp Terminal, Small	43178-1002
Male Tab Crimp Terminal, Large	43178-2002
MALE TAB CRIMP TERMINAL, SIDE BY SIDE	43178-3002
Receptacle Terminal, Small	43375-0001
Receptacle Terminal, Large	43375-1001

2.2 DIMENSIONS, MATERIALS, PLATINGS, AND MARKINGS

SEE THE APPROPRIATE DRAWINGS FOR INFORMATION ON DIMENSIONS, MATERIALS, PLATINGS, AND MARKINGS.

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PRODUCT SPECIFICATION SABRE

(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS:
SEE THE DRAWINGS AND THE OTHER SECTIONS OF THIS SPECIFICATION
FOR THE NECESSARY REFERENCED DOCUMENTS AND SPECIFICATIONS.

4.0 RATINGS:

4.1 VOLTAGE: 600 VOLTS AC RMS

4.2 CURRENT AND APPLICABLE WIRES:

WIRE SIZE	CURRENT	OUTSIDE INSULATION DIAMETER
14 AWG	18 AMPERES	4.57 MM (.180 INCHES)
16 AWG	TBD AMPERES	4.57 MM (.180 INCHES)
18 AWG	12 AMPERES	4.57 MM (.180 INCHES)

NOTE: THE CURRENT CAPACITY IS BASED ON EACH CIRCUIT POSITION
BEING LOADED WITH THE GIVEN WIRE SIZE, AND THE RATED
CURRENT APPLIED. THE CAPACITY FOR OTHER APPLICATIONS
MAY BE HIGHER; CONTACT MOLEX FOR FURTHER INFORMATION.

4.3 TEMPERATURE:

OPERATING: - 40 DEGREES C TO + 75 DEGREES C
NONOPERATING: - 40 DEGREES C TO +100 DEGREES C

NOTE: THIS TEMPERATURE RATING IS A GUIDELINE. IF THERE IS A
PRECEDENT FOR USING BRASS TERMINALS IN AN APPLICATION
BEYOND THIS RATING, THEN THIS SYSTEM WILL LIKELY BE
ACCEPTABLE; IN THAT CASE, RECOMMEND THAT TESTING BE
PERFORMED.

5.0 PERFORMANCE:

5.1 ELECTRICAL PERFORMANCE

5.2 MECHANICAL PERFORMANCE

5.3 ENVIRONMENTAL PERFORMANCE

6.0 PACKAGING:

PARTS SHALL BE PACKAGED TO PROTECT AGAINST DAMAGE DURING
HANDLING, TRANSIT, AND STORAGE.

7.0 GAUGES AND FIXTURES:

SKETCHES ARE PROVIDED AS REQUIRED.

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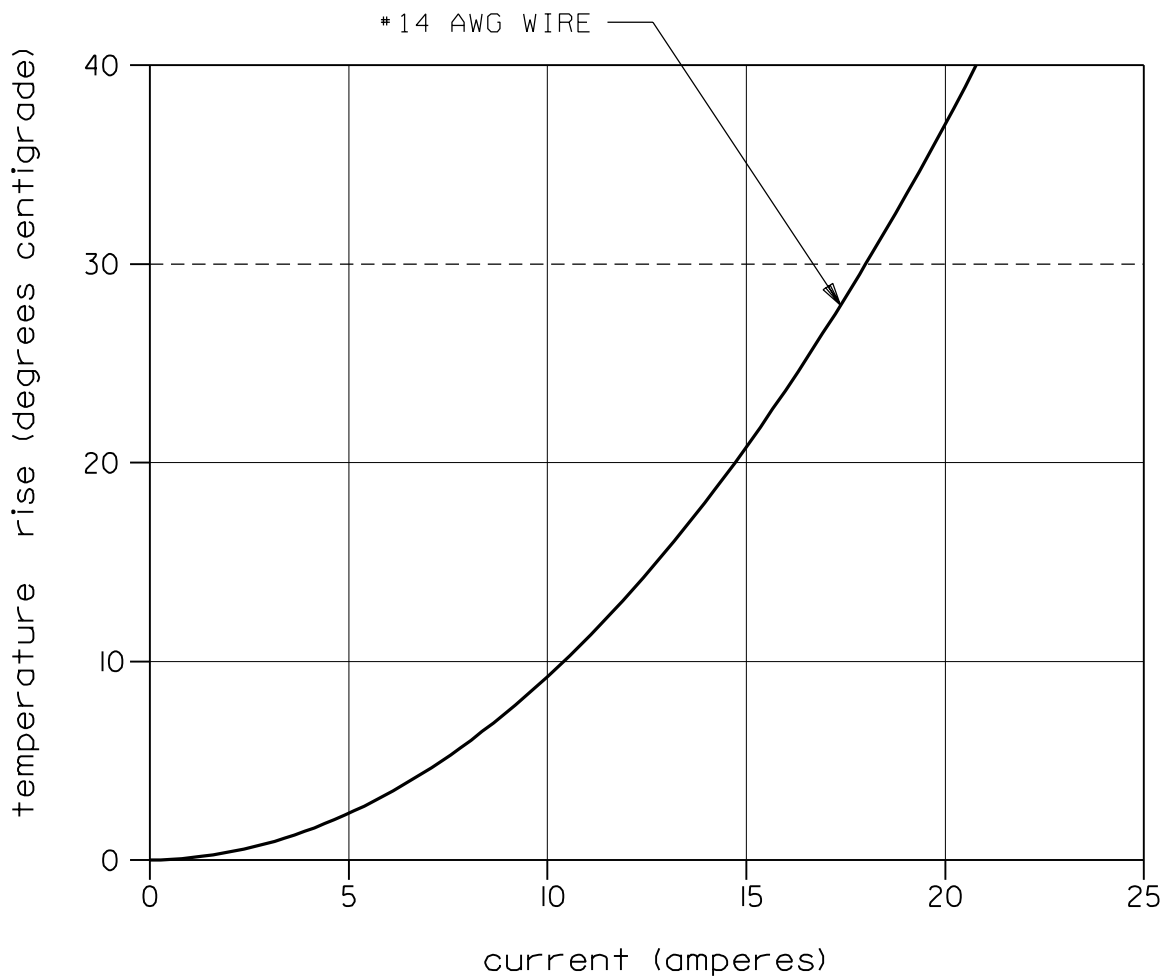
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PRODUCT SPECIFICATION SABRE

(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

8.0 TEMPERATURE RISE VERSUS CURRENT:



THIS DATA IS FOR BRASS TERMINALS LOADED IN EACH OF THE THREE POSITIONS OF MATED PLUG AND RECEPTACLE HOUSINGS. ALL THREE CIRCUITS CARRY THE INDICATED CURRENT.

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5.1 ELECTRICAL PERFORMANCE

ITEM	TEST CONDITION	REQUIREMENT
CONTACT RESISTANCE (LOW LEVEL)	MATE CONNECTORS WITH A MAXIMUM VOLTAGE OF 20 MV AND A CURRENT OF 100 MA.	3.0 MOHMS MAX (INITIAL)
INSULATION RESISTANCE	MATE CONNECTORS WITH A VOLTAGE OF 500 VDC BETWEEN ADJACENT TERMINALS AND BETWEEN TERMINALS AND GROUND.	1000 MEGOHMS MIN (INITIAL)
DIELECTRIC WITHSTANDING VOLTAGE	MATE CONNECTORS WITH A VOLTAGE OF 5000 VAC FOR 1 MIN.	NO BREAKDOWN

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(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

5.2 MECHANICAL PERFORMANCE

ITEM	TEST CONDITION	REQUIREMENT
CONNECTOR MATING & UN-MATING FORCE	INSERT AND WITHDRAW CONNECTORS AT A RATE OF 25 +/- 6 MM (1 +/- .250 INCHES) PER MIN.	MAX MIN INSERT WITHDRAW (3.0 LBS) (0.5 LBS) PER TERMINAL
TERMINAL RETENTION FORCE IN HOUSING	AXIAL PULL OUT FORCE ON THE TERMINAL IN THE HOUSING AT AT A RATE OF 25 +/- 6 MM (1 +/- .25 INCHES) PER MIN. (RECEPTACLE TERMINAL)	15 LBS MIN (TPA NOT ACTIVATED) 25 LBS MIN (WITH TPA ACTIVATED)
TERMINAL RETENTION FORCE IN HOUSING	AXIAL PULL OUT FORCE ON THE TERMINAL IN THE HOUSING AT AT A RATE OF 25 +/- 6 MM (1 +/- .25 INCHES) PER MIN. (MALE TAB CRIMP TERMINAL)	30 LBS MIN (TPA NOT ACTIVATED) 30 LBS MIN (WITH TPA ACTIVATED)
DURABILITY	MATE CONNECTOR 25 CYCLES AT A MAXIMUM RATE OF 10 CYCLES PER MIN. PRIOR TO THE ENVIRONMENTAL TESTS.	CONTACT RESISTANCE: 3.0 MOHMS MAX
VIBRATION	AMPLITUDE: 1.50 MM (.060 INCHES) PEAK TO PEAK SWEEP: 10-55-10 HZ IN ONE MIN. DURATION: 2 HOURS IN EACH X-Y-Z AXIS	CONTACT RESISTANCE: 5.0 MOHMS MAX NO DISCONTINUITY GREATER THAN ONE MICROSECOND
MECHANICAL SHOCK	50 G IN THE FORM OF THREE SAW TOOTH WAVEFORM SHOCKS IN EACH X-Y-Z AXIS.	CONTACT RESISTANCE: 5.0 MOHMS MAX NO DISCONTINUITY GREATER THAN ONE MICROSECOND

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(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

5.2 MECHANICAL PERFORMANCE (CONTINUED)

ITEM	TEST CONDITION	REQUIREMENT	
WIRE PULL OUT FORCE (AXIAL)	APPLY AN AXIAL PULL OUT FORCE ON THE WIRE AT A RATE OF 25 +/- 6 MM (1 +/- .250 INCHES)	AWG	MIN FORCE
		14	50 LBS
		16	45 LBS
		18	30 LBS
TERMINAL INSERTION FORCE	APPLY AN AXIAL INSERTION FORCE ON THE TERMINAL AT A RATE OF 25 +/- 6 MM (1 +/- .250) PER MIN.	1.0 LBS MAX	

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PRODUCT SPECIFICATION SABRE

(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

5.3 ENVIRONMENTAL PERFORMANCE

ITEM	TEST CONDITION	REQUIREMENT
THERMAL SHOCK	MATED CONNECTORS TO BE EXPOSED TO 10 CYCLES OF: TEMPERATURE DURATION DEGREES C MIN. -40 +0/-3 30 +3/-0 +105 +3/-0 30 +3/-0	APPEARANCE: NO DAMAGE CONTACT RESISTANCE: 3.0 MOHMS MAX
THERMAL AGING	MATED CONNECTORS TO BE EXPOSED 240 HOURS AT 105 +/- 2 DEGREES C	APPEARANCE: NO DAMAGE CONTACT RESISTANCE 5.0 MOHMS MAX
HUMIDITY (STEADY STATE)	MATED CONNECTORS TO BE EXPOSED TO A TEMPERATURE OF 40 +/- 2 DEGREES C WITH A RELATIVE HUMIDITY OF 90 TO 95% FOR 96 HOURS.	APPEARANCE: NO DAMAGE CONTACT RESISTANCE 5.0 MOHMS MAX DIELECTRIC STRENGTH: NO BREAKDOWN INSULATION RESISTANCE: 1000 MEGOHMS MIN
HUMIDITY (CYCLIC)	MATED CONNECTORS TO BE EXPOSED TO TEMPERATURE/HUMIDITY CYCLING BETWEEN +25 C AND +65 C AT 95% RH, -10 C WITH HUMIDITY NOT CONTROLLED. [MIL-STD-1344A METHOD 1002.2] [TYPE II]	APPEARANCE: NO DAMAGE CONTACT RESISTANCE 5.0 MOHMS MAX DIELECTRIC STRENGTH: NO BREAKDOWN INSULATION RESISTANCE: 100 MEGOHMS MIN

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(.125/(3.18) X .020/(0.51) FLAT BLADE SYSTEM - TPA)

(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

5.3 ENVIRONMENTAL PERFORMANCE (CONTINUED)

ITEM	TEST CONDITION	REQUIREMENT
TEMPERATURE RISE, AND CURRENT CYCLING	MATE THE CONNECTORS AND MEASURE THE TEMPERATURE RISE AT THE RATED CURRENT AFTER 96 HOURS. THEN 45 MINUTES ON AND 15 MINUTES OFF FOR 500 HOURS.	MAX TEMPERATURE RISE: 30 DEGREES C
SOLDERABILITY	SOLDER TIME 3 +/- 0.5 SECONDS SOLDER TEMPERATURE: 230 +/- 5 DEGREES C (A-43160-**** ONLY)	95% OF THE IMMERSED AREA MUST SHOW NO VOIDS, OR PIN HOLES
SALT SPRAY	48 HOURS EXPOSURE TO A SALT SPRAY FROM A 5% SOLUTION AT 35 DEGREES C.	CONTACT RESISTANCE: 10 MOHMS MAX
INFRARED PROCESSING	245 +/- 3 DEGREES C FOR FOUR MINUTES, THEN ALLOW TO COOL TO ROOM TEMPERATURE. REPEAT THREE TIMES (A-43160-**** ONLY)	APPEARANCE: NO DAMAGE

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(FOR TIN PLATED BRASS TERMINALS AND UL94V-0 HOUSINGS ONLY)

LTR	REVISIONS					
却	"X" RELEASE	PER	ECN#	U50640	95/01/03	KBP
客	REVISED	PER	ECN#	U70029	96/07/12	KSM
脚	REVISED	PER	ECN#	U70918	97/02/06	KBP
虐	REVISED	PER	ECN#	U71442	97/05/21	KBP

DRWG. NO.
PSX-44441-9999

REV.

SHT.

FILE NAME
T44441X09.DGN

▽ = 0

▼ = 0

REVISE ONLY ON CAD SYSTEM

REV.

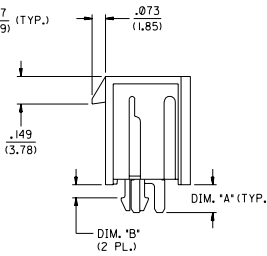
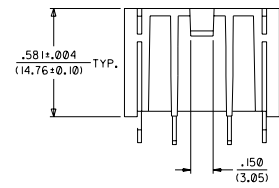
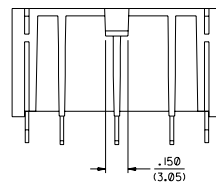
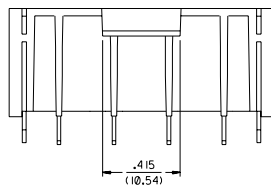
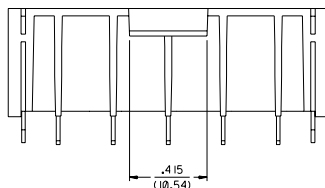
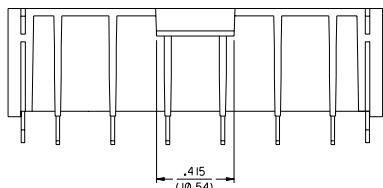
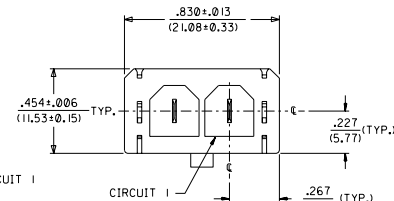
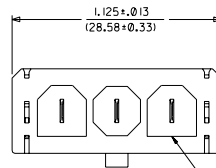
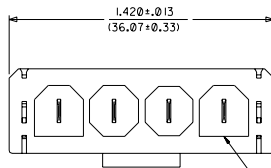
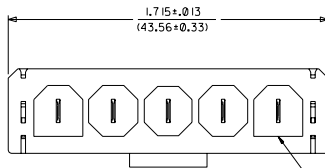
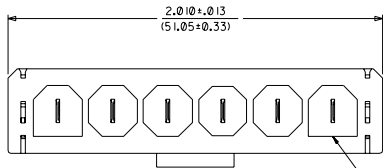
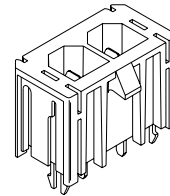
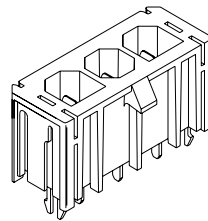
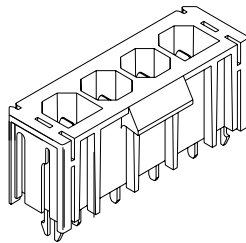
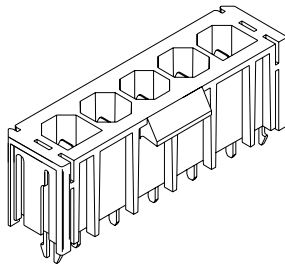
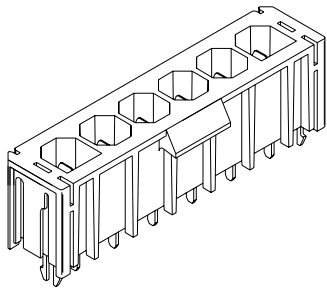
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

SHT.

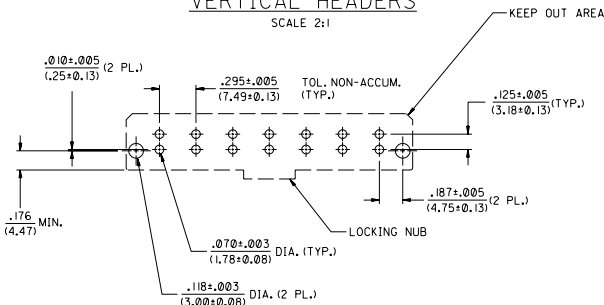
9

DRWG. NO.
PSX-44441-9999



SEE SHEET 2 AND 3 FOR ITEM NUMBER CHART

RECOMMENDED P.C. BOARD
LAYOUT FOR 2 THRU 7 CIRCUIT
VERTICAL HEADERS
SCALE 2:1



NOTES:

- INSULATOR MATERIAL: 30% GLASS FILLED 4/6 NYLON 94V-0
COLOR: BLACK
- TERMINAL MATERIAL: .020/(0.51) THICK C26000 BRASS
- TERMINAL PLATING CODES:
 - *A= 80 MICROINCHES TIN MIN. OVER 40 MICROINCHES COPPER MIN. ON THE SOLDER TAILS.
 - *B= 15 MICROINCHES SELECT GOLD MIN. OVER 50 MICROINCHES NICKEL OVERALL, AND 100 MICROINCHES SELECT TIN* OVER 50 MICROINCHES NICKEL ON THE SOLDER TAILS.
 - * 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.
- DIMENSIONS ARE FOR REFERENCE ONLY, UNLESS INDICATED OTHERWISE.
- THESE HEADERS MATE WITH 43179, 43335, OR 44441 RECEPTACLE HOUSINGS.
- 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.
- CONTACTS ARE ON .295/(7.49) CENTERLINE SPACING.
- PRODUCT SPECIFICATION: PSX-44441-9999.
- PACKAGING: SEE CHART.
- WHERE APPLICABLE, A .048/(1.22) DIAMETER THRU HOLE, PER NEMA STANDARD DC2-1982, FOR THE PURPOSE OF LOCKING TO A MATING FEMALE TERMINAL.

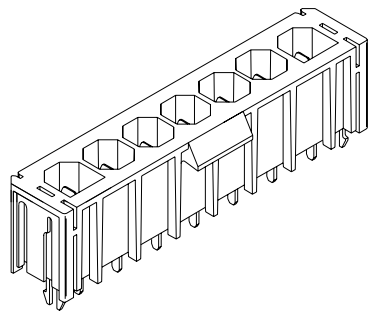
SOLDER TAIL	DIM. *A* ±.020/(0.51)
SHORT	.150/(3.81)
LONG	.210/(5.33)

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

DIMS. SHOWN METRIC INCH		REV. 0		REVISE ONLY ON CAD SYSTEM	
TITLE		SABRE HEADER ASSY'S		DATE	
SUBTITLE		VERTICAL, 2-7 CIR.		125/(3.18) X .020/(0.51)	
PART NO.		MOLEX INCORPORATED		DATE	
SHEET NO.		1 OF 6		95/11/30	
SEE CHART		SDA-43160-***		CP D	
BY: CAC		CHKD: KBP		DATE: 95/11/30	
APP'D: RAS		SCALE: 3:1		REV: 0	

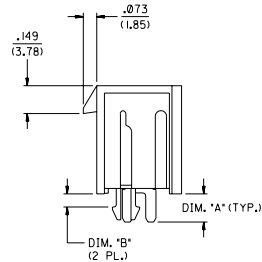
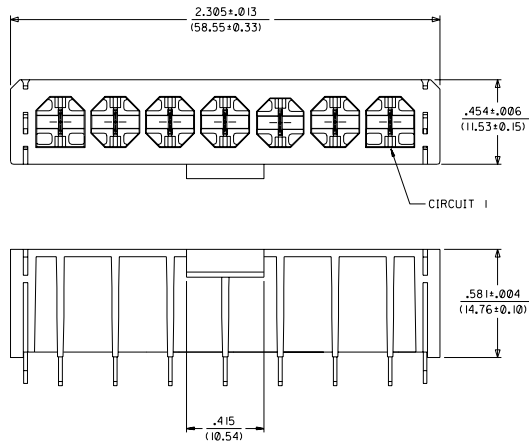
B			SEE SHEET 1	A	SEE SHEET ONE	CONSIDERING GIVEN INTERESTED IN TITLE		Z = 0 Z = 0 REVISE ONLY ON CAD SYSTEM
A2			SEE SHEET ONE	3	SEE SHEET ONE	SABRE HEADER ASSY'S VERTICAL 2-7 CIR. 125 (3.18) X .020 (0.51)		DATE 12/31/20
C			SEE SHEET 4	A1	SEE SHEET ONE	MOLEX INCORPORATED DATE 12/31/20		DATE 12/31/20
LTR. REVISIONS			LTR. REVISIONS	LTR. REVISIONS		SEE SHEET SDA-43160-0000 DATE 12/31/20		

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



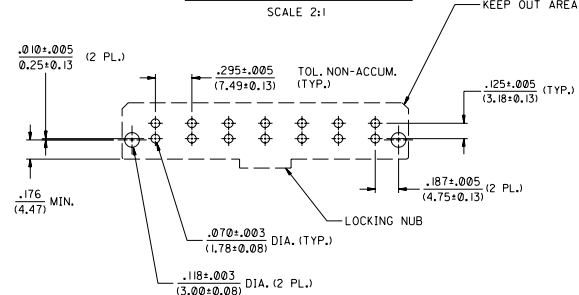
SOLDER TAIL	DIM. "A" $\pm .020/(0.51)$
SHORT	.150/(3.81)
LONG	.210/(5.33)

BOARD LOCK	DIM. "B" $\pm .004/(0.10)$
.062	.070/(1.78)
.094	.102/(2.59)
.125	.133/(3.38)



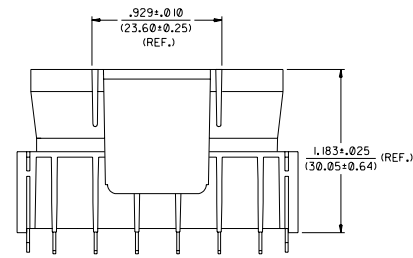
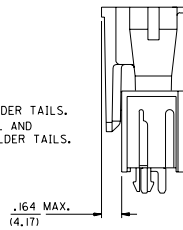
43160		PART CHARACTERISTICS FOR VERTICAL HEADER					43160	
VERTICAL HEADER ASSEMBLY ITEM NO.	CIRCUIT SIZE	PLATING (SEE NOTE 3)	SOLDER TAIL	LOCK (NOTE 11)	BOARD LOCK	PACKAGING SPECIFICATIONS		
X 43160-0107	7	A	SHORT	NO	N/A	PK-43160-0010		
X 43160-0207	7	B	SHORT	NO	N/A	PK-43160-0010		
X 43160-0307	7	A	LONG	NO	N/A	PK-43789-001		
X 43160-0407	7	B	LONG	NO	N/A	PK-43789-001		
X 43160-0507	7	A	SHORT	YES	N/A	PK-43160-0010		
X 43160-0707	7	B	SHORT	YES	N/A	PK-43160-0010		
X 43160-0707	7	A	LONG	YES	N/A	PK-43789-001		
X 43160-0807	7	B	LONG	YES	N/A	PK-43789-001		
X 43160-2107	7	A	SHORT	NO	.062	PK-43789-001		
X 43160-2207	7	B	SHORT	NO	.062	PK-43789-001		
X 43160-2507	7	A	SHORT	YES	.062	PK-43789-001		
X 43160-2607	7	B	SHORT	YES	.062	PK-43789-001		
X 43160-4107	7	A	SHORT	NO	.094	PK-43789-001		
X 43160-4207	7	B	SHORT	NO	.094	PK-43789-001		
X 43160-4307	7	A	LONG	NO	.094	PK-43789-001		
X 43160-4407	7	B	LONG	NO	.094	PK-43789-001		
X 43160-4507	7	A	SHORT	YES	.094	PK-43789-001		
X 43160-4607	7	B	SHORT	YES	.094	PK-43789-001		
X 43160-4707	7	A	LONG	YES	.094	PK-43789-001		
X 43160-4807	7	B	LONG	YES	.094	PK-43789-001		
X 43160-6307	7	A	LONG	NO	.125	PK-43789-001		
X 43160-6407	7	B	LONG	NO	.125	PK-43789-001		
X 43160-6707	7	A	LONG	YES	.125	PK-43789-001		
X 43160-6807	7	B	LONG	YES	.125	PK-43789-001		

RECOMMENDED P.C. BOARD LAYOUT FOR 2 THRU 7 CIRCUIT VERTICAL HEADERS



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MATED SABRE CONNECTOR

NO SCALE

DIMENSIONS SHOWN METRIC INCH		UNLESS OTHERWISE SPECIFIED		TOLERANCE ANALYSIS	
INCH		METRIC		TOLERANCE ANALYSIS	
1 PLACE	± .005	± .005	± .005		
2 PLACE	± .01	± .01	± .01		
3 PLACE	± .001	± .001	± .001		
ONLY WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ONLY WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
DRG. LEL	CHK. BY	KBP	FILE NO.	3:1	
APP. RJF	SCALE	3:1	DATE	3/1/03	
MFG. SH. REV. LTR.		REVISE ONLY ON CAD SYSTEM			
TITLE		SABRE HEADER ASSY'S VERTICAL 2-7 CIR.			
PART NO.		44032			
MATERIAL		44032			
QUANTITY		3			
DATE		10/03/30			
SEE CHART		SDA-43160-0000			
NO DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. OR ANY OTHER PARTY		CP			