

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022102101](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Wire-to-Board Header, Single Row, Vertical, 10 Circuits, PA Polyamide Nylon, Gold (Au) Plating

Documents:

3D Model	Product Specification PS-10-07 (PDF)
Packaging Specification (PDF)	RoHS Certificate of Compliance (PDF)
Drawing (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

General

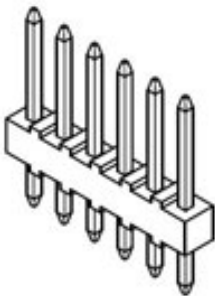
Product Family	PCB Headers
Series	4030
Application	Board-to-Board, Wire-to-Board
Product Name	KK®

Physical

Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Natural (White)
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	20
Plating min: Mating (µm)	0.50
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	4A
Voltage - Maximum	250V



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

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

[4030Series](#)

Mates With

[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Material Info

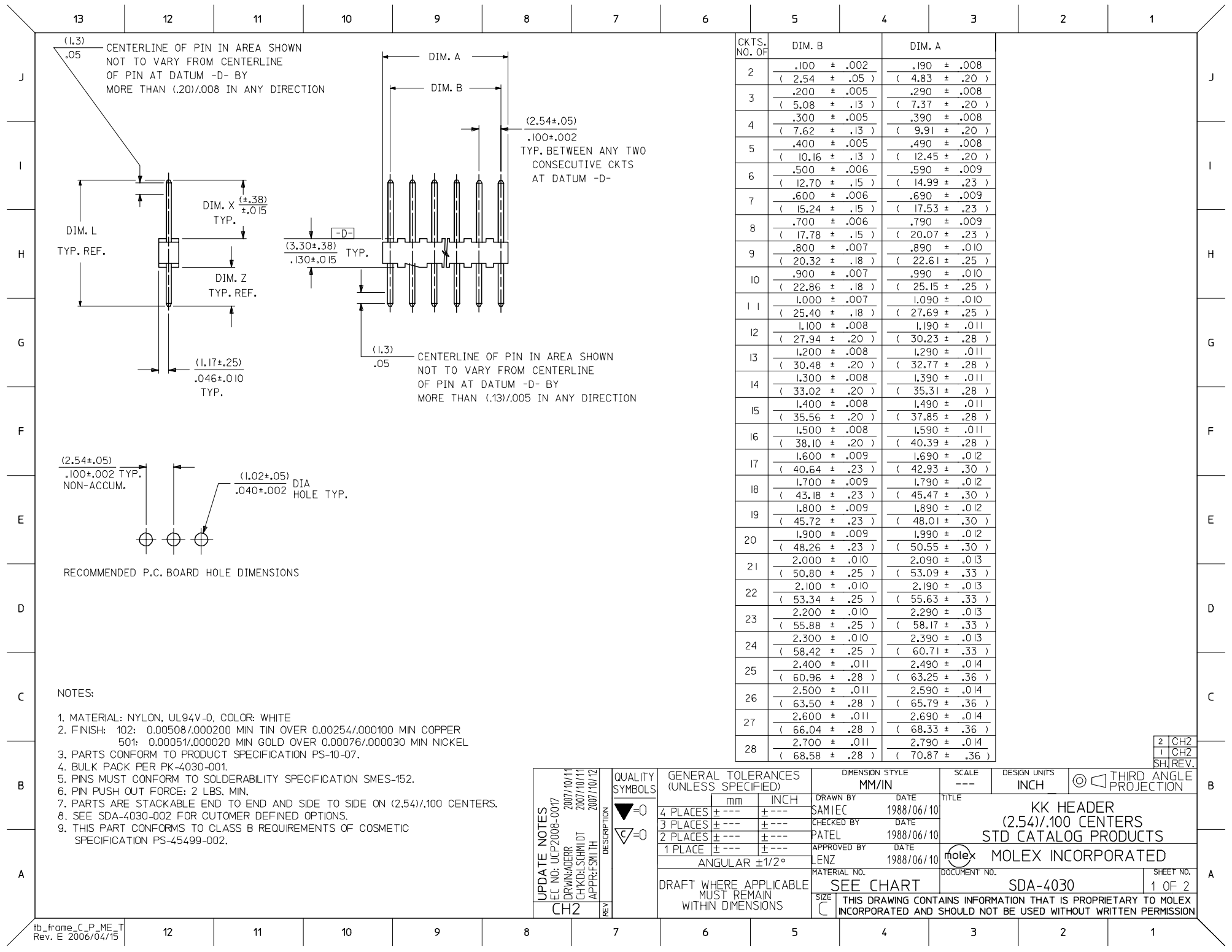
Old Part Number	A-4030-10A501
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Reference - Drawing Numbers

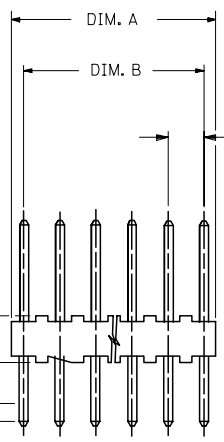
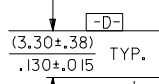
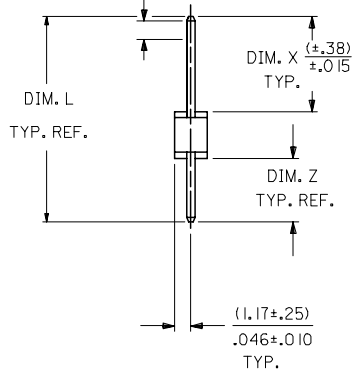
Product Specification	PS-10-07
Sales Drawing	SDA-4030

This document was generated on 04/09/2010

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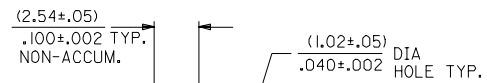


(1.3)
.05
CENTERLINE OF PIN IN AREA SHOWN
NOT TO VARY FROM CENTERLINE
OF PIN AT DATUM -D- BY
MORE THAN (.20)/.008 IN ANY DIRECTION



(2.54±.05)
.100±.002
TYP. BETWEEN ANY TWO
CONSECUTIVE CKTS
AT DATUM -D-

(1.3)
.05
CENTERLINE OF PIN IN AREA SHOWN
NOT TO VARY FROM CENTERLINE
OF PIN AT DATUM -D- BY
MORE THAN (.13)/.005 IN ANY DIRECTION



RECOMMENDED P.C. BOARD HOLE DIMENSIONS

- NOTES:
1. MATERIAL: NYLON, UL94V-0, COLOR: WHITE
 2. FINISH: 102: 0.00508/0.000200 MIN TIN OVER 0.00254/0.000100 MIN COPPER
501: 0.00051/0.000020 MIN GOLD OVER 0.00076/0.000030 MIN NICKEL
 3. PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
 4. BULK PACK PER PK-4030-001.
 5. PINS MUST CONFORM TO SOLDERABILITY SPECIFICATION SMES-152.
 6. PIN PUSH OUT FORCE: 2 LBS. MIN.
 7. PARTS ARE STACKABLE END TO END AND SIDE TO SIDE ON (2.54)/.100 CENTERS.
 8. SEE SDA-4030-002 FOR CUSTOMER DEFINED OPTIONS.
 9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKTS. NO. OF	DIM. B		DIM. A	
2	.100 ± .002 (2.54 ± .05)		.190 ± .008 (4.83 ± .20)	
3	.200 ± .005 (5.08 ± .13)		.290 ± .008 (7.37 ± .20)	
4	.300 ± .005 (7.62 ± .13)		.390 ± .008 (9.91 ± .20)	
5	.400 ± .005 (10.16 ± .13)		.490 ± .008 (12.45 ± .20)	
6	.500 ± .006 (12.70 ± .15)		.590 ± .009 (14.99 ± .23)	
7	.600 ± .006 (15.24 ± .15)		.690 ± .009 (17.53 ± .23)	
8	.700 ± .006 (17.78 ± .15)		.790 ± .009 (20.07 ± .23)	
9	.800 ± .007 (20.32 ± .18)		.890 ± .010 (22.61 ± .25)	
10	.900 ± .007 (22.86 ± .18)		.990 ± .010 (25.15 ± .25)	
11	1.000 ± .007 (25.40 ± .18)		1.090 ± .010 (27.69 ± .25)	
12	1.100 ± .008 (27.94 ± .20)		1.190 ± .011 (30.23 ± .28)	
13	1.200 ± .008 (30.48 ± .20)		1.290 ± .011 (32.77 ± .28)	
14	1.300 ± .008 (33.02 ± .20)		1.390 ± .011 (35.31 ± .28)	
15	1.400 ± .008 (35.56 ± .20)		1.490 ± .011 (37.85 ± .28)	
16	1.500 ± .008 (38.10 ± .20)		1.590 ± .011 (40.39 ± .28)	
17	1.600 ± .009 (40.64 ± .23)		1.690 ± .012 (42.93 ± .30)	
18	1.700 ± .009 (43.18 ± .23)		1.790 ± .012 (45.47 ± .30)	
19	1.800 ± .009 (45.72 ± .23)		1.890 ± .012 (48.01 ± .30)	
20	1.900 ± .009 (48.26 ± .23)		1.990 ± .012 (50.55 ± .30)	
21	2.000 ± .010 (50.80 ± .25)		2.090 ± .013 (53.09 ± .33)	
22	2.100 ± .010 (53.34 ± .25)		2.190 ± .013 (55.63 ± .33)	
23	2.200 ± .010 (55.88 ± .25)		2.290 ± .013 (58.17 ± .33)	
24	2.300 ± .010 (58.42 ± .25)		2.390 ± .013 (60.71 ± .33)	
25	2.400 ± .011 (60.96 ± .28)		2.490 ± .014 (63.25 ± .36)	
26	2.500 ± .011 (63.50 ± .28)		2.590 ± .014 (65.79 ± .36)	
27	2.600 ± .011 (66.04 ± .28)		2.690 ± .014 (68.33 ± .36)	
28	2.700 ± .011 (68.58 ± .28)		2.790 ± .014 (70.87 ± .36)	

2 CH2
1 CH2
SH. REV.

UPDATE NOTES
EC NO: UCP2008-0017
2007/10/11
DRAWN:ADRR
CHKD:LSHMDT
2007/10/11
APPR:FSM TH
2007/10/12
REV

QUALITY SYMBOLS
=0
=0

DESCRIPTION

GENERAL TOLERANCES
(UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
ANGULAR ±1/2°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY
SAMI EC
DATE
1988/06/10

CHECKED BY
PATEL
DATE
1988/06/10

APPROVED BY
LENZ
DATE
1988/06/10

MATERIAL NO.

DOCUMENT NO.

SEE CHART

SCALE

DESIGN UNITS
INCH

THIRD ANGLE
PROJECTION

KK HEADER
(2.54)/.100 CENTERS
STD CATALOG PRODUCTS

molex

MOLEX INCORPORATED

SDA-4030

SHEET NO.
1 OF 2

	13	12	11	10	9	8	7	6	5	4	3	2	1																																																					
J	ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	PACKAGE PER	EDP NO. IN COL NO							J																																																				
	A-4030 -NA(102)	2766 -I(102)	.560 (14.22)	.295 (7.49)	.135 (3.43)	PK-4030-001 BULK	1																																																											
	A-4030 -NA(501)	2766 -I(501)	.560 (14.22)	.295 (7.49)	.135 (3.43)	PK-4030-001 BULK	2																																																											
I	A- -	-	()	()	()																																																													
	A- -	-	()	()	()																																																													
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	EDP NO.	ENG. NO.	NO OF CKTS	EDP NO.	ENG. NO.	NO OF CKTS																																																												
F	22-03-2021	A-4030-02A(102)	2	22-10-2021	A-4030-02A(501)	2																																																												
	22-03-2031	A-4030-03A(102)	3	22-10-2031	A-4030-03A(501)	3																																																												
	22-03-2041	A-4030-04A(102)	4	22-10-2041	A-4030-04A(501)	4																																																												
	22-03-2051	A-4030-05A(102)	5	22-10-2051	A-4030-05A(501)	5								F																																																				
	22-03-2061	A-4030-06A(102)	6	22-10-2061	A-4030-06A(501)	6																																																												
	22-03-2071	A-4030-07A(102)	7	22-10-2071	A-4030-07A(501)	7																																																												
E	22-03-2081	A-4030-08A(102)	8	22-10-2081	A-4030-08A(501)	8								E																																																				
	22-03-2091	A-4030-09A(102)	9	22-10-2091	A-4030-09A(501)	9																																																												
	22-03-2101	A-4030-10A(102)	10	22-10-2101	A-4030-10A(501)	10																																																												
	22-03-2111	A-4030-11A(102)	11	22-10-2111	A-4030-11A(501)	11																																																												
	22-03-2121	A-4030-12A(102)	12	22-10-2121	A-4030-12A(501)	12																																																												
	22-03-2131	A-4030-13A(102)	13	22-10-2131	A-4030-13A(501)	13																																																												
D	22-03-2141	A-4030-14A(102)	14	22-10-2141	A-4030-14A(501)	14								D																																																				
	22-03-2151	A-4030-15A(102)	15	22-10-2151	A-4030-15A(501)	15																																																												
	22-03-2161	A-4030-16A(102)	16	22-10-2161	A-4030-16A(501)	16																																																												
	22-03-2171	A-4030-17A(102)	17	22-10-2171	A-4030-17A(501)	17																																																												
	22-03-2181	A-4030-18A(102)	18	22-10-2181	A-4030-18A(501)	18																																																												
	22-03-2191	A-4030-19A(102)	19	22-10-2191	A-4030-19A(501)	19																																																												
	22-03-2201	A-4030-20A(102)	20	22-10-2201	A-4030-20A(501)	20																																																												
C	22-03-2211	A-4030-21A(102)	21	22-10-2211	A-4030-21A(501)	21								C																																																				
	22-03-2221	A-4030-22A(102)	22	22-10-2221	A-4030-22A(501)	22																																																												
	22-03-2231	A-4030-23A(102)	23	22-10-2231	A-4030-23A(501)	23																																																												
	22-03-2241	A-4030-24A(102)	24	22-10-2241	A-4030-24A(501)	24																																																												
	22-03-2251	A-4030-25A(102)	25	22-10-2251	A-4030-25A(501)	25																																																												
	22-03-2261	A-4030-26A(102)	26	22-10-2261	A-4030-26A(501)	26																																																												
	22-03-2271	A-4030-27A(102)	27	22-10-2271	A-4030-27A(501)	27																																																												
B	22-03-2281	A-4030-28A(102)	28	22-10-2281	A-4030-28A(501)	28								B																																																				
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<table><tr><td rowspan="10">UPDATE TITLE BLOCK EC NO: UCP2008-0017 DRWN:ADERR 2007/10/11 CHKD:LSCHMIDT 2007/10/11 APPR:FSMITH 2007/10/12 CH2</td><td rowspan="10">DESCRIPTION REV</td><td>QUALITY SYMBOLS ▽=0 ▽=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE IN/MM</td><td>SCALE ---</td><td>DESIGN UNITS INCH</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td rowspan="4">4 PLACES 3 PLACES 2 PLACES 1 PLACE</td><td>mm</td><td>INCH</td><td>DRAWN BY SAMIEC</td><td>DATE 1993/07/15</td><td colspan="5" rowspan="4">KK HEADER (2.54)/.100 CENTERS STD CATALOG PRODUCTS MOLEX INCORPORATED</td></tr><tr><td>± ---</td><td>± ---</td><td>CHECKED BY PATEL</td><td>DATE 1993/07/15</td></tr><tr><td>± ---</td><td>± ---</td><td>APPROVED BY LENZ</td><td>DATE 1993/07/15</td></tr><tr><td>± ---</td><td>± ---</td><td colspan="2">MATERIAL NO.</td></tr><tr><td colspan="4">ANGULAR ±1/2°</td><td colspan="2">SEE CHART</td><td colspan="2">DOCUMENT NO.</td><td colspan="2">SHEET NO.</td></tr><tr><td colspan="4">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td><td colspan="2">SDA-4030</td><td colspan="2">2 OF 2</td></tr></table>														UPDATE TITLE BLOCK EC NO: UCP2008-0017 DRWN:ADERR 2007/10/11 CHKD:LSCHMIDT 2007/10/11 APPR:FSMITH 2007/10/12 CH2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE ---	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY SAMIEC	DATE 1993/07/15	KK HEADER (2.54)/.100 CENTERS STD CATALOG PRODUCTS MOLEX INCORPORATED					± ---	± ---	CHECKED BY PATEL	DATE 1993/07/15	± ---	± ---	APPROVED BY LENZ	DATE 1993/07/15	± ---	± ---	MATERIAL NO.		ANGULAR ±1/2°				SEE CHART		DOCUMENT NO.		SHEET NO.		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SDA-4030		2 OF 2	
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