

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022281020](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Header, Breakaway, Right Angle, with Friction Lock, 2 Circuits, Tin (Sn) 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

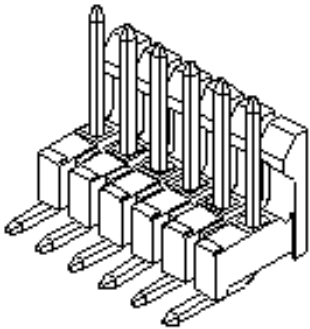
General

Product Family	PCB Headers
Series	42228
Application	Wire-to-Board
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	2
Circuits (maximum)	2
Color - Resin	Black
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 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)	100
Plating min: Mating (µm)	2.5
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Partial
Stackable	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical



Series
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
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
[42228Series](#)

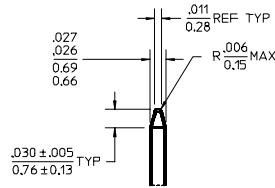
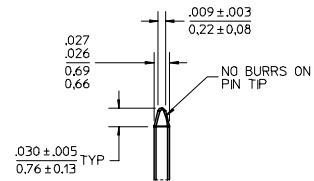
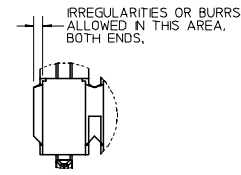
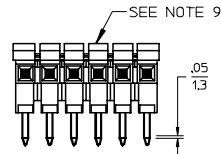
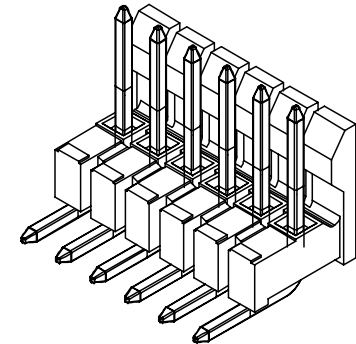
Mates With
[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

Current - Maximum per Contact	4A
Voltage - Maximum	250V
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	42228-0002
Reference - Drawing Numbers	
Product Specification	PS-10-07
Sales Drawing	SD-42228-001, SD-42228-002, SD-42228-003

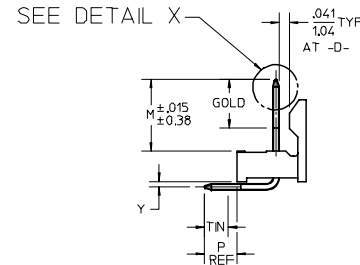
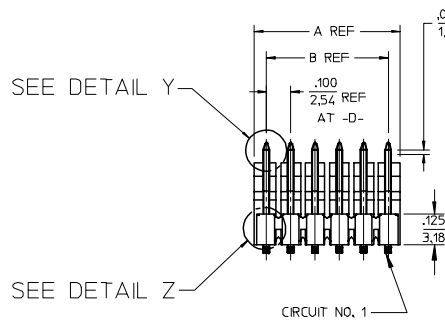
This document was generated on 03/22/2010

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CKTS	DM A	DM B
2	.200/5.08	.100/2.54
3	.300/7.62	.200/5.08
4	.400/10.16	.300/7.62
5	.500/12.70	.400/10.16
6	.600/15.24	.500/12.70
7	.700/17.78	.600/15.24
8	.800/20.32	.700/17.78
9	.900/22.86	.800/20.32
10	1.000/25.40	.900/22.86
11	1.100/27.94	1.000/25.40
12	1.200/30.48	1.100/27.94
13	1.300/33.02	1.200/30.48
14	1.400/35.56	1.300/33.02
15	1.500/38.10	1.400/35.56
16	1.600/40.64	1.500/38.10
17	1.700/43.18	1.600/40.64
18	1.800/45.72	1.700/43.18
19	1.900/48.26	1.800/45.72
20	2.000/50.80	1.900/48.26
21	2.100/53.34	2.000/50.80
22	2.200/55.88	2.100/53.34
23	2.300/58.42	2.200/55.88
24	2.400/60.96	2.300/58.42
25	2.500/63.50	2.400/60.96
26	2.600/66.04	2.500/63.50
27	2.700/68.58	2.600/66.04
28	2.800/71.12	2.700/68.58
29	2.900/73.66	2.800/71.12
30	3.000/76.20	2.900/73.66
31	3.100/78.74	3.000/76.20
32	3.200/81.28	3.100/78.74
33	3.300/83.82	3.200/81.28
34	3.400/86.36	3.300/83.82
35	3.500/88.90	3.400/86.36
36	3.600/91.44	3.500/88.90

DETAIL X
SCALE 5:1DETAIL Y
SCALE 5:1DETAIL Z
SCALE 5:1

.05
1.3 CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -D- BY MORE THAN .008/0.20 IN ANY DIRECTION.



NOTES:

1. MATERIAL: GLASS FILLED NYLON, 94V-0, COLOR: BLACK

2. FINISH:

(154) *OVERALL TIN: .000100/0.00254 MIN.

OVER .000050/0.00127 MIN NICKEL.

(208) SELECT GOLD: .000015/0.00038 MIN.

*SELECT TIN: .000100/0.00254 MIN.

OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.

(228) SELECT GOLD: .000030/0.00076 MIN.

*SELECT TIN: .000100/0.00254 MIN.

OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.

*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 PLATING

3. PRODUCT SPECIFICATION: PS-10-07.

4. PACKAGING INFORMATION: SEE TABLES

5. KINK PIN SPECIFICATION: SEE SMES-42003

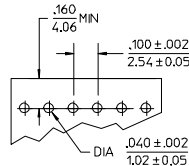
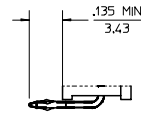
6. HEADERS ARE NOT STACKABLE ON .100/2.54 CENTERS.

7. SOLDERABILITY PER SMES-152.

8. PIN PUSH OUT FORCE: 3 LBS. MIN.

9. ABRASION MARKS ON BACK WALL SURFACE ARE PERMISSIBLE.

2-*	L
1	L4
SHT	REV

RECOMMENDED PC BOARD
LAYOUTKINKED PIN DETAIL
SEE NOTE 5

ADD NOTE 9	EC NO: UCP2006-1710	2006/02/01	2006/02/02	2006/02/06
	DRWN:ADERR	CHKD:LSCHMT	APPR:FSMTH	
L4	REV			

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± ---	± ---
3 PLACES ± ---	± .010
2 PLACES ± 0.25	± .014
1 PLACE ± 0.36	± ---
ANGULAR ± 1/2°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE IN/MM	
DRAWN BY	DATE
JSCHAFER	2004/03/18
CHECKED BY	DATE
KSAMIEC	2004/03/18
APPROVED BY	DATE
MARGULIS	2004/03/18
MATERIAL NO.	SEE CHART

SCALE 2:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE .100 FRICTION LOCK BREAKAWAY HEADER ASSY		
MOLEX MOLEX INCORPORATED		
DOCUMENT NO. SD-42228-001		SHEET NO. 1 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

A-42228-0002/0036						A-42228-0037/0071					
HEADER NUMBER:		41411				HEADER NUMBER:		41411			
PIN NUMBER:		42663-CKA154				PIN NUMBER:		42663-CKB208			
PIN LENGTH: L		.705/17.91				PIN LENGTH: L		.705/17.91			
MATING LENGTH: M		.295/7.49				MATING LENGTH: M		.295/7.49			
GOLD POINT: G		N/A				GOLD POINT: G		.140/3.56			
PC TAIL LENGTH: P		.120/3.05				PC TAIL LENGTH: P		.120/3.05			
TIN: T		OVERALL				TIN: T		.135/3.43			
DIMENSION Y		.022/0.56				DIMENSION Y		.022/0.56			
CKTS:		2-36				CKTS:		2-36			
KINKS:		NO				KINKS:		NO			
REMOVED BACKWALLS:		NO				REMOVED BACKWALLS:		NO			
VOIDED CKTS:		NONE				VOIDED CKTS:		NONE			
PACKAGING:		BULK 40873-0056				PACKAGING:		BULK 40873-0056			
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03	22-28-1030	A-42228-0003	21	22-28-1210	A-42228-0021	03	22-28-1031	A-42228-0038	21	22-28-1211	A-42228-0056
04	22-28-1040	A-42228-0004	22	22-28-1220	A-42228-0022	04	22-28-1041	A-42228-0039	22	22-28-1221	A-42228-0057
05	22-28-1050	A-42228-0005	23	22-28-1230	A-42228-0023	05	22-28-1051	A-42228-0040	23	22-28-1231	A-42228-0058
06	22-28-1060	A-42228-0006	24	22-28-1240	A-42228-0024	06	22-28-1061	A-42228-0041	24	22-28-1241	A-42228-0059
07	22-28-1070	A-42228-0007	25	22-28-1250	A-42228-0025	07	22-28-1071	A-42228-0042	25	22-28-1251	A-42228-0060
08	22-28-1080	A-42228-0008	26	22-28-1260	A-42228-0026	08	22-28-1081	A-42228-0043	26	22-28-1261	A-42228-0061
09	22-28-1090	A-42228-0009	27	22-28-1270	A-42228-0027	09	22-28-1091	A-42228-0044	27	22-28-1271	A-42228-0062
10	22-28-1100	A-42228-0010	28	22-28-1280	A-42227-0028	10	22-28-1101	A-42228-0045	28	22-28-1281	A-42228-0063
11	22-28-1110	A-42228-0011	29	22-28-1290	A-42228-0029	11	22-28-1111	A-42228-0046	29	22-28-1291	A-42228-0064
12	22-28-1120	A-42228-0012	30	22-28-1300	A-42228-0030	12	22-28-1121	A-42228-0047	30	22-28-1301	A-42228-0065
13	22-28-1130	A-42228-0013	31	22-28-1310	A-42228-0031	13	22-28-1131	A-42228-0048	31	22-28-1311	A-42228-0066
14	22-28-1140	A-42228-0014	32	22-28-1320	A-42228-0032	14	22-28-1141	A-42228-0049	32	22-28-1321	A-42228-0067
15	22-28-1150	A-42228-0015	33	22-28-1330	A-42228-0033	15	22-28-1151	A-42228-0050	33	22-28-1331	A-42228-0068
16	22-28-1160	A-42228-0016	34	22-28-1340	A-42228-0034	16	22-28-1161	A-42228-0051	34	22-28-1341	A-42228-0069
17	22-28-1170	A-42228-0017	35	22-28-1350	A-42228-0035	17	22-28-1171	A-42228-0052	35	22-28-1351	A-42228-0070
18	22-28-1180	A-42228-0018	36	22-28-1360	A-42228-0036	18	22-28-1181	A-42228-0053	36	22-28-1361	A-42228-0071
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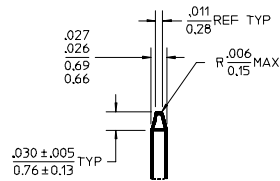
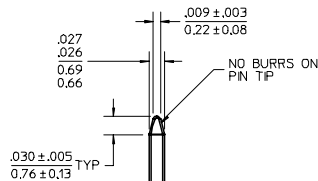
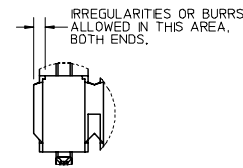
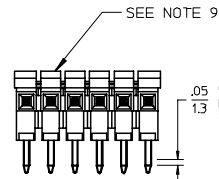
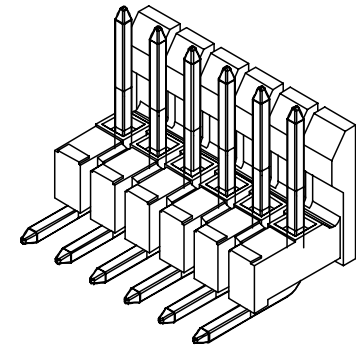
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SD- 42228 -001		S. LINEHAN 03/04/2004	K.SAMIEC 03/04/2004	Y. MARGULIS 03/04/2004

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PIN LENGTH: L		.705/17.91				PIN LENGTH: L		.720/18.29									
MATING LENGTH: M		.295/7.49				MATING LENGTH: M		.295/7.49									
GOLD POINT: G		.140/3.56				GOLD POINT: G		N/A									
PC TAIL LENGTH: P		.120/3.05				PC TAIL LENGTH: P		.135/3.43									
TIN: T		.135/3.43				TIN: T		OVERALL									
DIMENSION Y		.022/0.56				DIMENSION Y		.022/0.56									
CKTS:		2-36				CKTS:		2-36									
KINKS:		NO				KINKS:		YES ES-42003									
REMOVED BACKWALLS:		NO				REMOVED BACKWALLS:		NO									
VOIDED CKTS:		NONE				VOIDED CKTS:		NONE									
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05	22-28-1052	A-42228-0075	23	22-28-1232	A-42228-0093	05	22-28-1053	A-42228-0110	23	22-28-1233	A-42228-0128						
06	22-28-1062	A-42228-0076	24	22-28-1242	A-42228-0094	06	22-28-1063	A-42228-0111	24	22-28-1243	A-42228-0129						
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PIN NUMBER:		42663-CNB208				PIN NUMBER:		42663-CNB228									
PIN LENGTH: L		.720/18.29				PIN LENGTH: L		.720/18.29									
MATING LENGTH: M		.295/7.49				MATING LENGTH: M		.295/7.49									
GOLD POINT: G		.140/3.56				GOLD POINT: G		.140/3.56									
PC TAIL LENGTH: P		.135/3.43				PC TAIL LENGTH: P		.135/3.43									
TIN: T		.135/3.43				TIN: T		.135/3.43									
DIMENSION Y		.022/0.56				DIMENSION Y		.022/0.56									
CKTS:		2-36				CKTS:		2-36									
KINKS:		YES ES-42003				KINKS:		YES ES-42003									
REMOVED BACKWALLS:		NO				REMOVED BACKWALLS:		NO									
VOIDED CKTS:		NONE				VOIDED CKTS:		NONE									
PACKAGING:		BULK 40873-0056				PACKAGING:		BULK 40873-0056									
CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER						
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06	22-28-1064	A-42228-0146	24	22-28-1244	A-42228-0164	06	22-28-1065	A-42228-0181	24	22-28-1245	A-42228-0199						
07	22-28-1074	A-42228-0147	25	22-28-1254	A-42228-0165	07	22-28-1075	A-42228-0182	25	22-28-1255	A-42228-0200						
08	22-28-1084	A-42228-0148	26	22-28-1264	A-42228-0166	08	22-28-1085	A-42228-0183	26	22-28-1265	A-42228-0201						
09	22-28-1094	A-42228-0149	27	22-28-1274	A-42228-0167	09	22-28-1095	A-42228-0184	27	22-28-1275	A-42228-0202						
10	22-28-1104	A-42228-0150	28	22-28-1284	A-42228-0168	10	22-28-1105	A-42228-0185	28	22-28-1285	A-42228-0203						
11	22-28-1114	A-42228-0151	29	22-28-1294	A-42228-0169	11	22-28-1115	A-42228-0186	29	22-28-1295	A-42228-0204						
12	22-28-1124	A-42228-0152	30	22-28-1304	A-42228-0170	12	22-28-1125	A-42228-0187	30	22-28-1305	A-42228-0205						
13	22-28-1134	A-42228-0153	31	22-28-1314	A-42228-0171	13	22-28-1135	A-42228-0188	31	22-28-1315	A-42228-0206						
14	22-28-1144	A-42228-0154	32	22-28-1324	A-42228-0172	14	22-28-1145	A-42228-0189	32	22-28-1325	A-42228-0207						
15	22-28-1154	A-42228-0155	33	22-28-1334	A-42228-0173	15	22-28-1155	A-42228-0190	33	22-28-1335	A-42228-0208						
16	22-28-1164	A-42228-0156	34	22-28-1344	A-42228-0174	16	22-28-1165	A-42228-0191	34	22-28-1345	A-42228-0209						
17	22-28-1174	A-42228-0157	35	22-28-1354	A-42228-0175	17	22-28-1175	A-42228-0192	35	22-28-1355	A-42228-0210						
18	22-28-1184	A-42228-0158	36	22-28-1364	A-42228-0176	18	22-28-1185	A-42228-0193	36	22-28-1365	A-42228-0211						
19	22-28-1194	A-42228-0159				19	22-28-1195	A-42228-0194									
REV:						TITLE:		.100 FRICTION LOCK BREAKAWAY HEADER ASSY.				SHEET No. - 4 -					
DOCUMENT NUMBER:		SD- 42228 -001				CREATED / REVISED BY:		S. LINEHAN 03/04/2004		CHECKED BY:		K.SAMIEC 03/04/2004		APPROVED BY:		Y. MARGULIS 03/04/2004	
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC																	

CKTS	DM A	DM B
2	.200/5.08	.100/2.54
3	.300/7.62	.200/5.08
4	.400/10.16	.300/7.62
5	.500/12.70	.400/10.16
6	.600/15.24	.500/12.70
7	.700/17.78	.600/15.24
8	.800/20.32	.700/17.78
9	.900/22.86	.800/20.32
10	1.000/25.40	.900/22.86
11	1.100/27.94	1.000/25.40
12	1.200/30.48	1.100/27.94
13	1.300/33.02	1.200/30.48
14	1.400/35.56	1.300/33.02
15	1.500/38.10	1.400/35.56
16	1.600/40.64	1.500/38.10
17	1.700/43.18	1.600/40.64
18	1.800/45.72	1.700/43.18
19	1.900/48.26	1.800/45.72
20	2.000/50.80	1.900/48.26
21	2.100/53.34	2.000/50.80
22	2.200/55.88	2.100/53.34
23	2.300/58.42	2.200/55.88
24	2.400/60.96	2.300/58.42
25	2.500/63.50	2.400/60.96
26	2.600/66.04	2.500/63.50
27	2.700/68.58	2.600/66.04
28	2.800/71.12	2.700/68.58
29	2.900/73.66	2.800/71.12
30	3.000/76.20	2.900/73.66
31	3.100/78.74	3.000/76.20
32	3.200/81.28	3.100/78.74
33	3.300/83.82	3.200/81.28
34	3.400/86.36	3.300/83.82
35	3.500/88.90	3.400/86.36
36	3.600/91.44	3.500/88.90

DETAIL X
SCALE 5:1DETAIL Y
SCALE 5:1DETAIL Z
SCALE 5:1

.05 CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -D- BY MORE THAN .008/0.20 IN ANY DIRECTION.

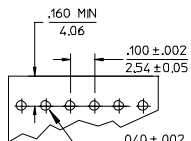
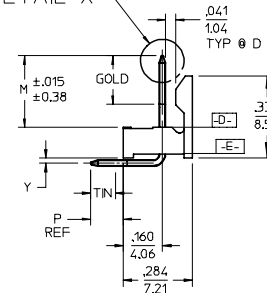
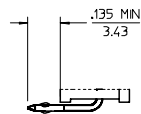
SEE DETAIL Y

SEE DETAIL X

SEE DETAIL Z

CIRCUIT NO. 1

OPTIONAL
REMOVED
BACKWALLS
(FIRST &
LAST CKTS)

RECOMMENDED PC BOARD
LAYOUTKINKED PIN DETAIL
SEE NOTE 5

NOTES:

1. MATERIAL: GLASS FILLED NYLON, 94V-0, COLOR: BLACK
2. FINISH:

(154) *OVERALL TIN: .000100/0.00254 MIN.

OVER .000050/0.00127 MN NICKEL.

(208) SELECT GOLD: .000015/0.00038 MIN.

*SELECT TIN: .000100/0.00254 MIN.

OVERALL NICKEL UNDERPLATE: .000050/0.00127 MN.

(228) SELECT GOLD: .000030/0.00076 MIN.

*SELECT TIN: .000100/0.00254 MIN.

OVERALL NICKEL UNDERPLATE: .000050/0.00127 MN.

*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 PLATING

3. PRODUCT SPECIFICATION: PS-10-07.

4. PACKAGING INFORMATION: SEE TABLES

5. KINK PIN SPECIFICATION: SEE SMES-42003

6. HEADERS ARE NOT STACKABLE ON .100/2.54 CENTERS.

7. SOLDERABILITY PER SMES-152.

8. PIN PUSH OUT FORCE: 3 LBS. MIN.

9. ABRASION MARKS ON BACK WALL SURFACE ARE PERMISSIBLE.

2	L
1	L4
SHT	REV

ADD NOTE 9		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: UCP2006-1710		2006/02/01		mm		IN/MM		2:1		INCH		2:1	
DRWN:ADERR		2006/02/01		4 PLACES ±---		DRAWN BY JSCHAFER		DATE 2004/03/18		TITLE		.100 FRICTION LOCK	
CHKD:LSCHMIDT		2006/02/02		3 PLACES ±---		CHECKED BY		DATE		MOLEX INCORPORATED		SHEET NO.	
APPR:FSMITH		2006/02/06		2 PLACES ±0.25 ±.014		APPROVED BY KSAMIEC		DATE 2004/03/18		SD-42228-002		1 OF 6	
				1 PLACE ±0.36 ±---		MARGULIS		DATE 2004/03/18					
				ANGULAR ±1/2°		MATERIAL NO.		SEE CHART					
				DRAFT WHERE APPLICABLE		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
L4		REV											

A-42228-0077						A-42228-0144					
HEADER NUMBER:		41411				HEADER NUMBER:		41411			
PIN NUMBER:		42663-CKB228				PIN NUMBER:		42663-CNB208			
PIN LENGTH: L		.705/17.91				PIN LENGTH: L		.720/18.29			
MATING LENGTH: M		.295/7.49				MATING LENGTH: M		.295/7.49			
GOLD POINT: G		.140/3.56				GOLD POINT: G		.140/3.56			
PC TAIL LENGTH: P		.120/3.05				PC TAIL LENGTH: P		.135/3.43			
TIN: T		.135/3.43				TIN: T		.135/3.43			
DIMENSION Y		.022/0.56				DIMENSION Y		.022/0.56			
CKTS:		2-36				CKTS:		2-36			
KINKS:		NO				KINKS:		YES ES-42003			
REMOVED BACKWALLS:		NO				REMOVED BACKWALLS:		NO			
VOIDED CKTS:		NONE				VOIDED CKTS:		NONE			
PACKAGING:		BULK 40873-0056				PACKAGING:		BULK 40873-0056			
CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER
02			20			02			20		
03			21			03			21		
04			22			04	50-29-1739	A-42228-0144	22		
05			23			05			23		
06			24			06			24		
07	50-29-1881	A-42228-0077	25			07			25		
08			26			08			26		
09			27			09			27		
10			28			10			28		
11			29			11			29		
12			30			12			30		
13			31			13			31		
14			32			14			32		
15			33			15			33		
16			34			16			34		
17			35			17			35		
18			36			18			36		
19						19					

REV:		TITLE:	.100 FRICTION LOCK BREAKAWAY HEADER ASSY. LEAD-FREE	SHEET No.
A2				- 2 -
DOCUMENT NUMBER:	SD- 42228 -003	CREATED / REVISED BY:	DPETERSON 09/26/2005	CHECKED BY:
			ADERR 09/26/2005	APPROVED BY:
				FSMITH 09/26/2005

TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC