

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022280080](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Header, Breakaway, Vertical, with Friction Lock, 8 Circuits, Tin (Sn) Plating

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

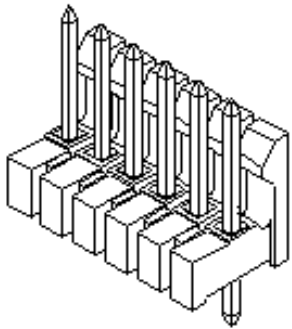
General

Product Family	PCB Headers
Series	42227
Application	Wire-to-Board
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	8
Circuits (maximum)	8
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	Vertical
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	No
Polarized to PCB	No
Shrouded	No
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
Contains SVHC: No**
**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.

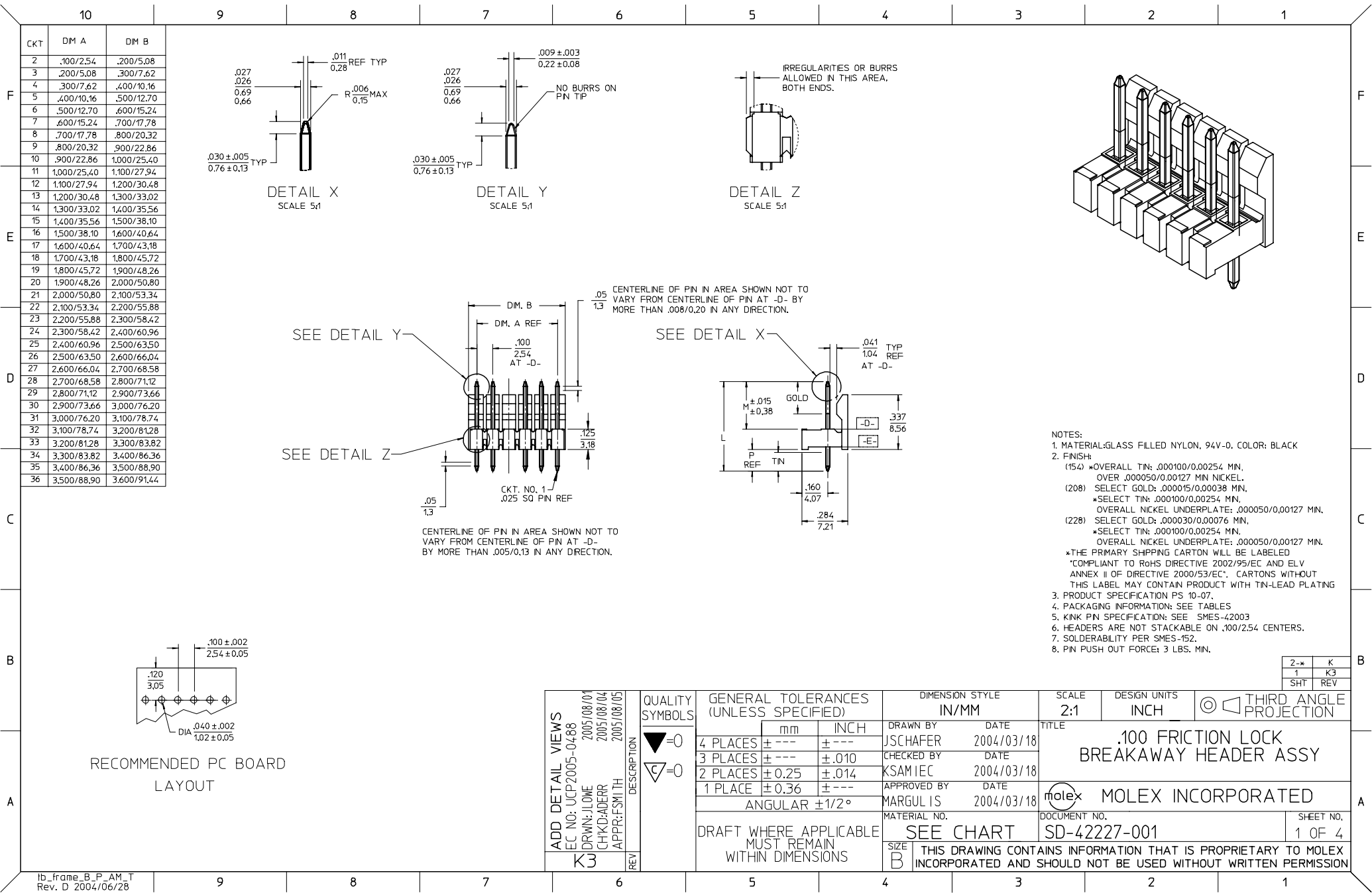
Search Parts in this Series
[42227Series](#)

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

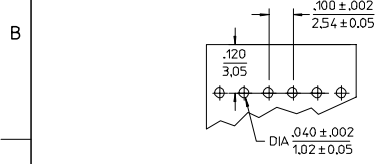
Current - Maximum per Contact	4A
Voltage - Maximum	250V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235
Material Info	
Old Part Number	42227-0008
Reference - Drawing Numbers	
Product Specification	PS-10-07
Sales Drawing	SD-42227-001

This document was generated on 03/21/2010

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



RECOMMENDED PC BOARD LAYOUT

- 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.

2-K	K
1	K3
SHT	REV

ADD DETAIL VIEWS EC NO: UCP2005-0488 DRWN: JLOWE 2005/08/01 CHKD: ADERR 2005/08/04 APPR: FSWITH 2005/08/05		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION ◎ □		
					mm	INCH	DRAWN BY JSCHAFER	DATE 2004/03/18	TITLE .100 FRICTION LOCK BREAKAWAY HEADER ASSY			
				4 PLACES	± ---	± ---	CHECKED BY	DATE				
				3 PLACES	± ---	± .010	KSAMIEC	2004/03/18	MOLEX MOLEX INCORPORATED			
				2 PLACES	± 0.25	± .014	APPROVED BY	DATE				
1 PLACE	± 0.36	± ---	MARGULIS	2004/03/18	DOCUMENT NO. SD-42227-001		SHEET NO. 1 OF 4					
K3		REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
					SIZE B							

A-42227-0002/0036						A-42227-0037/0071					
HEADER NUMBER:		41411				HEADER NUMBER:		41411			
PIN NUMBER:		42663-AXA154				PIN NUMBER:		42663-AXB208			
PIN LENGTH: L		.540/13.72				PIN LENGTH: L		.540/13.72			
MATING LENGTH: M		.295/7.49				MATING LENGTH: M		.295/7.49			
GOLD POINT: G		N/A				GOLD POINT: G		.180/4.57			
PC TAIL LENGTH: P		.120/3.05				PC TAIL LENGTH: P		.120/3.05			
TIN: T		OVERALL				TIN: T		.135/3.43			
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			
CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER
02	22-28-0020	A-42227-0002	20	22-28-0200	A-42227-0020	02	22-28-0021	A-42227-0037	20	22-28-0201	A-42227-0055
03	22-28-0030	A-42227-0003	21	22-28-0210	A-42227-0021	03	22-28-0031	A-42227-0038	21	22-28-0211	A-42227-0056
04	22-28-0040	A-42227-0004	22	22-28-0220	A-42227-0022	04	22-28-0041	A-42227-0039	22	22-28-0221	A-42227-0057
05	22-28-0050	A-42227-0005	23	22-28-0230	A-42227-0023	05	22-28-0051	A-42227-0040	23	22-28-0231	A-42227-0058
06	22-28-0060	A-42227-0006	24	22-28-0240	A-42227-0024	06	22-28-0061	A-42227-0041	24	22-28-0241	A-42227-0059
07	22-28-0070	A-42227-0007	25	22-28-0250	A-42227-0025	07	22-28-0071	A-42227-0042	25	22-28-0251	A-42227-0060
08	22-28-0080	A-42227-0008	26	22-28-0260	A-42227-0026	08	22-28-0081	A-42227-0043	26	22-28-0261	A-42227-0061
09	22-28-0090	A-42227-0009	27	22-28-0270	A-42227-0027	09	22-28-0091	A-42227-0044	27	22-28-0271	A-42227-0062
10	22-28-0100	A-42227-0010	28	22-28-0280	A-42227-0028	10	22-28-0101	A-42227-0045	28	22-28-0281	A-42227-0063
11	22-28-0110	A-42227-0011	29	22-28-0290	A-42227-0029	11	22-28-0111	A-42227-0046	29	22-28-0291	A-42227-0064
12	22-28-0120	A-42227-0012	30	22-28-0300	A-42227-0030	12	22-28-0121	A-42227-0047	30	22-28-0301	A-42227-0065
13	22-28-0130	A-42227-0013	31	22-28-0310	A-42227-0031	13	22-28-0131	A-42227-0048	31	22-28-0311	A-42227-0066
14	22-28-0140	A-42227-0014	32	22-28-0320	A-42227-0032	14	22-28-0141	A-42227-0049	32	22-28-0321	A-42227-0067
15	22-28-0150	A-42227-0015	33	22-28-0330	A-42227-0033	15	22-28-0151	A-42227-0050	33	22-28-0331	A-42227-0068
16	22-28-0160	A-42227-0016	34	22-28-0340	A-42227-0034	16	22-28-0161	A-42227-0051	34	22-28-0341	A-42227-0069
17	22-28-0170	A-42227-0017	35	22-28-0350	A-42227-0035	17	22-28-0171	A-42227-0052	35	22-28-0351	A-42227-0070
18	22-28-0180	A-42227-0018	36	22-28-0360	A-42227-0036	18	22-28-0181	A-42227-0053	36	22-28-0361	A-42227-0071
19	22-28-0190	A-42227-0019				19	22-28-0191	A-42227-0054			
REV:		SEE SHEET 1		TITLE:		.100 FRICTION LOCK BREAKAWAY HEADER ASSY.				SHEET No.	
K										- 2 -	
DOCUMENT NUMBER:				CREATED / REVISED BY:		CHECKED BY:		APPROVED BY:			
SD- 42227 -001				S. LINEHAN 03/04/2004		K.SAMIEC 03/04/2004		Y. MARGULIS 03/04/2004			
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC											

A-42227-0072/0106															
HEADER NUMBER:		41411													
PIN NUMBER:		42663-AXB228													
PIN LENGTH: L		.540/13.72													
MATING LENGTH: M		.295/7.49													
GOLD POINT: G		.180/4.57													
PC TAIL LENGTH: P		.120/3.05													
TIN: T		.135/3.43													
CKTS:		2-36													
KINKS:		NO													
REMOVED BACKWALLS:		NO													
VOIDED CKTS:		NONE													
PACKAGING:		BULK 40873-0056													
CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER										
02	22-28-0022	A-42227-0072	20	22-28-0202	A-42227-0090										
03	22-28-0032	A-42227-0073	21	22-28-0212	A-42227-0091										
04	22-28-0042	A-42227-0074	22	22-28-0222	A-42227-0092										
05	22-28-0052	A-42227-0075	23	22-28-0232	A-42227-0093										
06	22-28-0062	A-42227-0076	24	22-28-0242	A-42227-0094										
07	22-28-0072	A-42227-0077	25	22-28-0252	A-42227-0095										
08	22-28-0082	A-42227-0078	26	22-28-0262	A-42227-0096										
09	22-28-0092	A-42227-0079	27	22-28-0272	A-42227-0097										
10	22-28-0102	A-42227-0080	28	22-28-0282	A-42227-0098										
11	22-28-0112	A-42227-0081	29	22-28-0292	A-42227-0099										
12	22-28-0122	A-42227-0082	30	22-28-0302	A-42227-0100										
13	22-28-0132	A-42227-0083	31	22-28-0312	A-42227-0101										
14	22-28-0142	A-42227-0084	32	22-28-0322	A-42227-0102										
15	22-28-0152	A-42227-0085	33	22-28-0332	A-42227-0103										
16	22-28-0162	A-42227-0086	34	22-28-0342	A-42227-0104										
17	22-28-0172	A-42227-0087	35	22-28-0352	A-42227-0105										
18	22-28-0182	A-42227-0088	36	22-28-0362	A-42227-0106										
19	22-28-0192	A-42227-0089													
REV:		SEE SHEET 1		TITLE:				.100 FRICTION LOCK BREAKAWAY HEADER ASSY.				SHEET No. - 3 -			
DOCUMENT NUMBER: SD- 42227 -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															

A-42227-0107/0141					
HEADER NUMBER:		41411			
PIN NUMBER:		42663-BAA154			
PIN LENGTH: L		.555/14.10			
MATING LENGTH: M		.295/7.49			
GOLD POINT: G		N/A			
PC TAIL LENGTH: P		.135/3.43			
TIN: T		OVERALL			
CKTS:		2-36			
KINKS:		YES			
REMOVED BACKWALLS:		NO			
VOIDED CKTS:		NONE			
PACKAGING:		BULK 40873-0056			
CKTS	MATERIAL NUMBER	ENG NUMBER	CKTS	MATERIAL NUMBER	ENG NUMBER
02	22-28-0023	A-42227-0107	20	22-28-0203	A-42227-0125
03	22-28-0033	A-42227-0108	21	22-28-0213	A-42227-0126
04	22-28-0043	A-42227-0109	22	22-28-0223	A-42227-0127
05	22-28-0053	A-42227-0110	23	22-28-0233	A-42227-0128
06	22-28-0063	A-42227-0111	24	22-28-0243	A-42227-0129
07	22-28-0073	A-42227-0112	25	22-28-0253	A-42227-0130
08	22-28-0083	A-42227-0113	26	22-28-0263	A-42227-0131
09	22-28-0093	A-42227-0114	27	22-28-0273	A-42227-0132
10	22-28-0103	A-42227-0115	28	22-28-0283	A-42227-0133
11	22-28-0113	A-42227-0116	29	22-28-0293	A-42227-0134
12	22-28-0123	A-42227-0117	30	22-28-0303	A-42227-0135
13	22-28-0133	A-42227-0118	31	22-28-0313	A-42227-0136
14	22-28-0143	A-42227-0119	32	22-28-0323	A-42227-0137
15	22-28-0153	A-42227-0120	33	22-28-0333	A-42227-0138
16	22-28-0163	A-42227-0121	34	22-28-0343	A-42227-0139
17	22-28-0173	A-42227-0122	35	22-28-0353	A-42227-0140
18	22-28-0183	A-42227-0123	36	22-28-0363	A-42227-0141
19	22-28-0193	A-42227-0124			

A-42227-0142/0176						A-42227-0177/0211							
HEADER NUMBER:		41411				HEADER NUMBER:		41411					
PIN NUMBER:		42663-BAB208				PIN NUMBER:		42663-BAB228					
PIN LENGTH: L		.555/14.10				PIN LENGTH: L		.555/14.10					
MATING LENGTH: M		.295/7.49				MATING LENGTH: M		.295/7.49					
GOLD POINT: G		.180/4.57				GOLD POINT: G		.180/4.57					
PC TAIL LENGTH: P		.135/3.43				PC TAIL LENGTH: P		.135/3.43					
TIN: T		.135/3.43				TIN: T		.135/3.43					
CKTS:		2-36				CKTS:		2-36					
KINKS:		YES				KINKS:		YES					
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	22-28-0024	A-42227-0142	20	22-28-0204	A-42227-0160	02	22-28-0025	A-42227-0177	20	22-28-0205	A-42227-0195		
03	22-28-0034	A-42227-0143	21	22-28-0214	A-42227-0161	03	22-28-0035	A-42227-0178	21	22-28-0215	A-42227-0196		
04	22-28-0044	A-42227-0144	22	22-28-0224	A-42227-0162	04	22-28-0045	A-42227-0179	22	22-28-0225	A-42227-0197		
05	22-28-0054	A-42227-0145	23	22-28-0234	A-42227-0163	05	22-28-0055	A-42227-0180	23	22-28-0235	A-42227-0198		
06	22-28-0064	A-42227-0146	24	22-28-0244	A-42227-0164	06	22-28-0065	A-42227-0181	24	22-28-0245	A-42227-0199		
07	22-28-0074	A-42227-0147	25	22-28-0254	A-42227-0165	07	22-28-0075	A-42227-0182	25	22-28-0255	A-42227-0200		
08	22-28-0084	A-42227-0148	26	22-28-0264	A-42227-0166	08	22-28-0085	A-42227-0183	26	22-28-0265	A-42227-0201		
09	22-28-0094	A-42227-0149	27	22-28-0274	A-42227-0167	09	22-28-0095	A-42227-0184	27	22-28-0275	A-42227-0202		
10	22-28-0104	A-42227-0150	28	22-28-0284	A-42227-0168	10	22-28-0105	A-42227-0185	28	22-28-0285	A-42227-0203		
11	22-28-0114	A-42227-0151	29	22-28-0294	A-42227-0169	11	22-28-0115	A-42227-0186	29	22-28-0295	A-42227-0204		
12	22-28-0124	A-42227-0152	30	22-28-0304	A-42227-0170	12	22-28-0125	A-42227-0187	30	22-28-0305	A-42227-0205		
13	22-28-0134	A-42227-0153	31	22-28-0314	A-42227-0171	13	22-28-0135	A-42227-0188	31	22-28-0315	A-42227-0206		
14	22-28-0144	A-42227-0154	32	22-28-0324	A-42227-0172	14	22-28-0145	A-42227-0189	32	22-28-0325	A-42227-0207		
15	22-28-0154	A-42227-0155	33	22-28-0334	A-42227-0173	15	22-28-0155	A-42227-0190	33	22-28-0335	A-42227-0208		
16	22-28-0164	A-42227-0156	34	22-28-0344	A-42227-0174	16	22-28-0165	A-42227-0191	34	22-28-0345	A-42227-0209		
17	22-28-0174	A-42227-0157	35	22-28-0354	A-42227-0175	17	22-28-0175	A-42227-0192	35	22-28-0355	A-42227-0210		
18	22-28-0184	A-42227-0158	36	22-28-0364	A-42227-0176	18	22-28-0185	A-42227-0193	36	22-28-0365	A-42227-0211		
19	22-28-0194	A-42227-0159				19	22-28-0195	A-42227-0194					
REV:		SEE SHEET 1		TITLE:				.100 FRICTION LOCK BREAKAWAY HEADER ASSY.				SHEET No. - 4 -	
DOCUMENT NUMBER: SD- 42227 -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													