

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022283206](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Header, Breakaway, Vertical, with Polarizing Wall, 20 Circuits, Tin (Sn) Plating, with Backwalls Removed

Documents:

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

Agency Certification

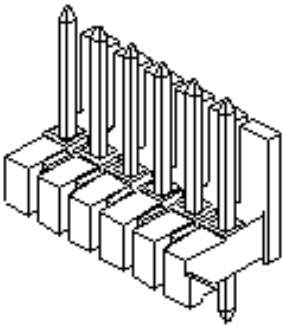
CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	42225
Application	Wire-to-Board
Comments	Backwalls Removed
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	20
Circuits (maximum)	20
Color - Resin	Black
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.135 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)	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



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
[42225Series](#)

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

Electrical

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

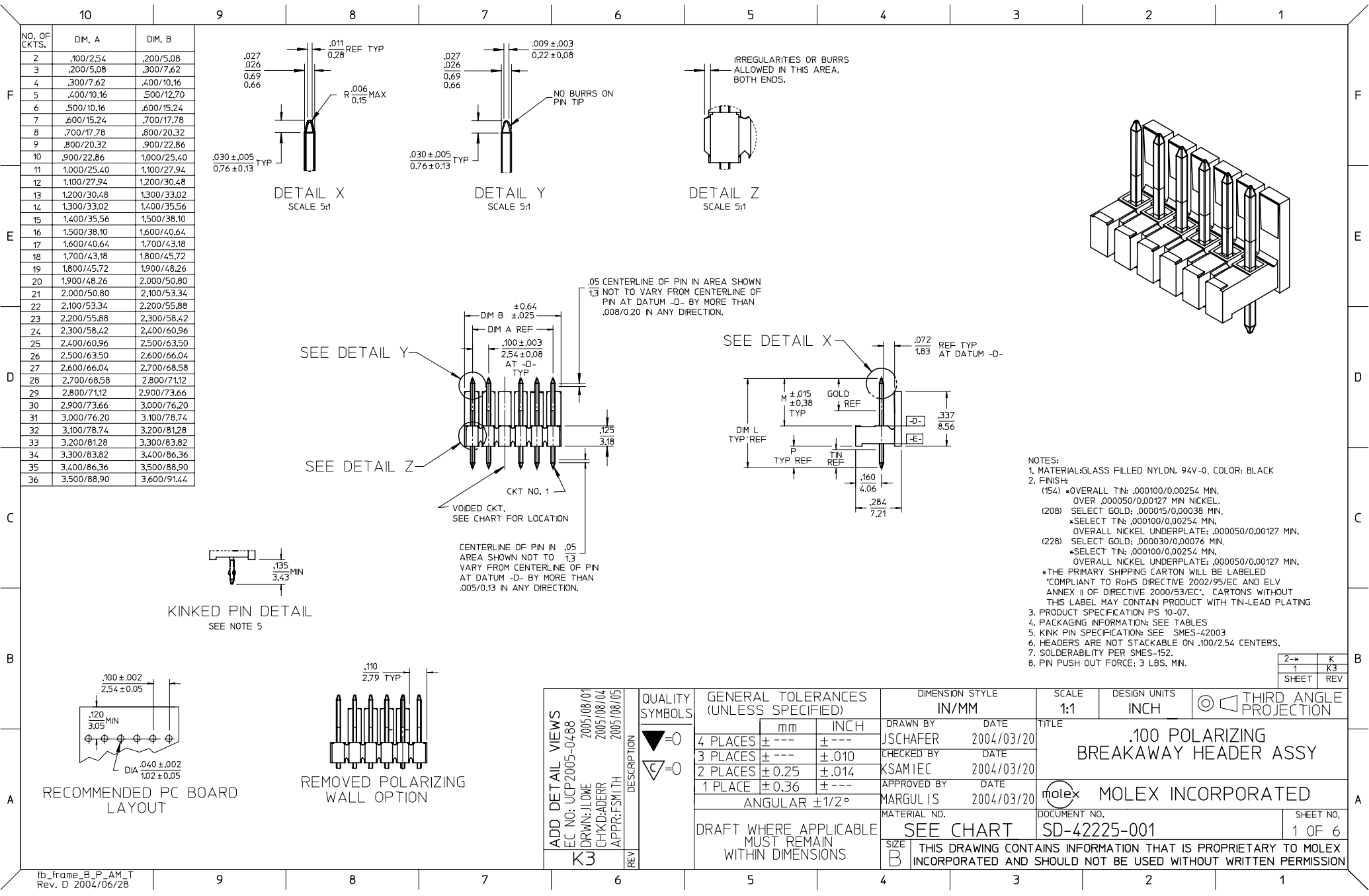
Old Part Number	42225-0230
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Reference - Drawing Numbers

Product Specification	PS-10-07
Sales Drawing	SD-42225-001

This document was generated on 04/20/2010

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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/.254 CENTERS.
7. SOLDERABILITY PER SMES-152.
8. PIN PUSH OUT FORCE: 3 LBS. MIN.

2-x	K
1	K3
SHEET	REV

ADD DETAIL VIEWS EC NO: UCP2005-0488 DRWN: JLOME 2005/08/01 CHKD: ADERR 2005/08/04 APPR: FSWITH 2005/08/05 K3	DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	TITLE .100 POLARIZING BREAKAWAY HEADER ASSY	
			mm	INCH	DRAWN BY JSCHAFFER	DATE 2004/03/20	MOLEX MOLEX INCORPORATED			
		4 PLACES	± ---	± ---	CHECKED BY KSAMIEC	DATE 2004/03/20				
		3 PLACES	± ---	± .010	APPROVED BY MARGULIS	DATE 2004/03/20				
		2 PLACES	± 0.25	± .014	MATERIAL NO. SEE CHART					DOCUMENT NO. SD-42225-001
		1 PLACE	± 0.36	± ---	ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			

A-42225-0002/0036						A-42225-0037/0071								
HEADER NUMBER:		41410				HEADER NUMBER:		41410						
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		.140/3.56						
PC TAIL LENGTH: P		.120/3.05				PC TAIL LENGTH: P		.120/3.05						
TIN: T		OVERALL				TIN: T		.100/2.54						
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	22-28-3020	A-42225-0002	20	22-28-3200	A-42225-0020	02	22-28-3021	A-42225-0037	20	22-28-3201	A-42225-0055			
03	22-28-3030	A-42225-0003	21	22-28-3210	A-42225-0021	03	22-28-3031	A-42225-0038	21	22-28-3211	A-42225-0056			
04	22-28-3040	A-42225-0004	22	22-28-3220	A-42225-0022	04	22-28-3041	A-42225-0039	22	22-28-3221	A-42225-0057			
05	22-28-3050	A-42225-0005	23	22-28-3230	A-42225-0023	05	22-28-3051	A-42225-0040	23	22-28-3231	A-42225-0058			
06	22-28-3060	A-42225-0006	24	22-28-3240	A-42225-0024	06	22-28-3061	A-42225-0041	24	22-28-3241	A-42225-0059			
07	22-28-3070	A-42225-0007	25	22-28-3250	A-42225-0025	07	22-28-3071	A-42225-0042	25	22-28-3251	A-42225-0060			
08	22-28-3080	A-42225-0008	26	22-28-3260	A-42225-0026	08	22-28-3081	A-42225-0043	26	22-28-3261	A-42225-0061			
09	22-28-3090	A-42225-0009	27	22-28-3270	A-42225-0027	09	22-28-3091	A-42225-0044	27	22-28-3271	A-42225-0062			
10	22-28-3100	A-42225-0010	28	22-28-3280	A-42225-0028	10	22-28-3101	A-42225-0045	28	22-28-3281	A-42225-0063			
11	22-28-3110	A-42225-0011	29	22-28-3290	A-42225-0029	11	22-28-3111	A-42225-0046	29	22-28-3291	A-42225-0064			
12	22-28-3120	A-42225-0012	30	22-28-3300	A-42225-0030	12	22-28-3121	A-42225-0047	30	22-28-3301	A-42225-0065			
13	22-28-3130	A-42225-0013	31	22-28-3310	A-42225-0031	13	22-28-3131	A-42225-0048	31	22-28-3311	A-42225-0066			
14	22-28-3140	A-42225-0014	32	22-28-3320	A-42225-0032	14	22-28-3141	A-42225-0049	32	22-28-3321	A-42225-0067			
15	22-28-3150	A-42225-0015	33	22-28-3330	A-42225-0033	15	22-28-3151	A-42225-0050	33	22-28-3331	A-42225-0068			
16	22-28-3160	A-42225-0016	34	22-28-3340	A-42225-0034	16	22-28-3161	A-42225-0051	34	22-28-3341	A-42225-0069			
17	22-28-3170	A-42225-0017	35	22-28-3350	A-42225-0035	17	22-28-3171	A-42225-0052	35	22-28-3351	A-42225-0070			
18	22-28-3180	A-42225-0018	36	22-28-3360	A-42225-0036	18	22-28-3181	A-42225-0053	36	22-28-3361	A-42225-0071			
19	22-28-3190	A-42225-0019				19	22-28-3191	A-42225-0054						
REV:						TITLE:				SHEET No.				
K						.100 POLARIZING BREAKAWAY HEADER ASSY.				- 2 -				
DOCUMENT NUMBER:					CREATED / REVISED BY:			CHECKED BY:			APPROVED BY:			
SD- 42225 -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-42225-0072/0106						A-42225-0107/0141					
HEADER NUMBER:			41410			HEADER NUMBER:			41410		
PIN NUMBER:			42663-AXB228			PIN NUMBER:			42663-BAA154		
PIN LENGTH: L			.540/13.72			PIN LENGTH: L			.555/14.10		
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			.100/2.54			TIN: T			OVERALL		
CKTS:			2-36			CKTS:			2-36		
KINKS:			NO			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
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03	22-28-3032	A-42225-0073	21	22-28-3212	A-42225-0091	03	22-28-3033	A-42225-0108	21	22-28-3213	A-42225-0126
04	22-28-3042	A-42225-0074	22	22-28-3222	A-42225-0092	04	22-28-3043	A-42225-0109	22	22-28-3223	A-42225-0127
05	22-28-3052	A-42225-0075	23	22-28-3232	A-42225-0093	05	22-28-3053	A-42225-0110	23	22-28-3233	A-42225-0128
06	22-28-3062	A-42225-0076	24	22-28-3242	A-42225-0094	06	22-28-3063	A-42225-0111	24	22-28-3243	A-42225-0129
07	22-28-3072	A-42225-0077	25	22-28-3252	A-42225-0095	07	22-28-3073	A-42225-0112	25	22-28-3253	A-42225-0130
08	22-28-3082	A-42225-0078	26	22-28-3262	A-42225-0096	08	22-28-3083	A-42225-0113	26	22-28-3263	A-42225-0131
09	22-28-3092	A-42225-0079	27	22-28-3272	A-42225-0097	09	22-28-3093	A-42225-0114	27	22-28-3273	A-42225-0132
10	22-28-3102	A-42225-0080	28	22-28-3282	A-42225-0098	10	22-28-3103	A-42225-0115	28	22-28-3283	A-42225-0133
11	22-28-3112	A-42225-0081	29	22-28-3292	A-42225-0099	11	22-28-3113	A-42225-0116	29	22-28-3293	A-42225-0134
12	22-28-3122	A-42225-0082	30	22-28-3302	A-42225-0100	12	22-28-3123	A-42225-0117	30	22-28-3303	A-42225-0135
13	22-28-3132	A-42225-0083	31	22-28-3312	A-42225-0101	13	22-28-3133	A-42225-0118	31	22-28-3313	A-42225-0136
14	22-28-3142	A-42225-0084	32	22-28-3322	A-42225-0102	14	22-28-3143	A-42225-0119	32	22-28-3323	A-42225-0137
15	22-28-3152	A-42225-0085	33	22-28-3332	A-42225-0103	15	22-28-3153	A-42225-0120	33	22-28-3333	A-42225-0138
16	22-28-3162	A-42225-0086	34	22-28-3342	A-42225-0104	16	22-28-3163	A-42225-0121	34	22-28-3343	A-42225-0139
17	22-28-3172	A-42225-0087	35	22-28-3352	A-42225-0105	17	22-28-3173	A-42225-0122	35	22-28-3353	A-42225-0140
18	22-28-3182	A-42225-0088	36	22-28-3362	A-42225-0106	18	22-28-3183	A-42225-0123	36	22-28-3363	A-42225-0141
19	22-28-3192	A-42225-0089				19	22-28-3193	A-42225-0124			
REV:						TITLE:				SHEET No.	
K						.100 POLARIZING BREAKAWAY HEADER ASSY.				- 3 -	
DOCUMENT NUMBER:				CREATED / REVISED BY:		CHECKED BY:		APPROVED BY:			
SD- 42225 -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-42225-0142/0176						A-42225-0177/0211													
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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			.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			.100/2.54			TIN: T			.100/2.54										
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								
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03	22-28-3034	A-42225-0143	21	22-28-3214	A-42225-0161	03	22-28-3035	A-42225-0178	21	22-28-3215	A-42225-0196								
04	22-28-3044	A-42225-0144	22	22-28-3224	A-42225-0162	04	22-28-3045	A-42225-0179	22	22-28-3225	A-42225-0197								
05	22-28-3054	A-42225-0145	23	22-28-3234	A-42225-0163	05	22-28-3055	A-42225-0180	23	22-28-3235	A-42225-0198								
06	22-28-3064	A-42225-0146	24	22-28-3244	A-42225-0164	06	22-28-3065	A-42225-0181	24	22-28-3245	A-42225-0199								
07	22-28-3074	A-42225-0147	25	22-28-3254	A-42225-0165	07	22-28-3075	A-42225-0182	25	22-28-3255	A-42225-0200								
08	22-28-3084	A-42225-0148	26	22-28-3264	A-42225-0166	08	22-28-3085	A-42225-0183	26	22-28-3265	A-42225-0201								
09	22-28-3094	A-42225-0149	27	22-28-3274	A-42225-0167	09	22-28-3095	A-42225-0184	27	22-28-3275	A-42225-0202								
10	22-28-3104	A-42225-0150	28	22-28-3284	A-42225-0168	10	22-28-3105	A-42225-0185	28	22-28-3285	A-42225-0203								
11	22-28-3114	A-42225-0151	29	22-28-3294	A-42225-0169	11	22-28-3115	A-42225-0186	29	22-28-3295	A-42225-0204								
12	22-28-3124	A-42225-0152	30	22-28-3304	A-42225-0170	12	22-28-3125	A-42225-0187	30	22-28-3305	A-42225-0205								
13	22-28-3134	A-42225-0153	31	22-28-3314	A-42225-0171	13	22-28-3135	A-42225-0188	31	22-28-3315	A-42225-0206								
14	22-28-3144	A-42225-0154	32	22-28-3324	A-42225-0172	14	22-28-3145	A-42225-0189	32	22-28-3325	A-42225-0207								
15	22-28-3154	A-42225-0155	33	22-28-3334	A-42225-0173	15	22-28-3155	A-42225-0190	33	22-28-3335	A-42225-0208								
16	22-28-3164	A-42225-0156	34	22-28-3344	A-42225-0174	16	22-28-3165	A-42225-0191	34	22-28-3345	A-42225-0209								
17	22-28-3174	A-42225-0157	35	22-28-3354	A-42225-0175	17	22-28-3175	A-42225-0192	35	22-28-3355	A-42225-0210								
18	22-28-3184	A-42225-0158	36	22-28-3364	A-42225-0176	18	22-28-3185	A-42225-0193	36	22-28-3365	A-42225-0211								
19	22-28-3194	A-42225-0159				19	22-28-3195	A-42225-0194											
REV:						TITLE:			.100 POLARIZING BREAKAWAY HEADER ASSY.			SHEET No. - 4 -							
DOCUMENT NUMBER:			SD- 42225 -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-42225-0213/0246						A-42225-0248/0281											
HEADER NUMBER:		41410				HEADER NUMBER:		41410									
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		.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									
CKTS:		3-36				CKTS:		3-36									
KINKS:		NO				KINKS:		NO									
REMOVED BACKWALLS:		YES				REMOVED BACKWALLS:		YES									
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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03	22-28-3036	A-42225-0213	21	22-28-3216	A-42225-0231	03	22-28-3037	A-42225-0248	21	22-28-3217	A-42225-0266						
04	22-28-3046	A-42225-0214	22	22-28-3226	A-42225-0232	04	22-28-3047	A-42225-0249	22	22-28-3227	A-42225-0267						
05	22-28-3056	A-42225-0215	23	22-28-3236	A-42225-0233	05	22-28-3057	A-42225-0250	23	22-28-3237	A-42225-0268						
06	22-28-3066	A-42225-0216	24	22-28-3246	A-42225-0234	06	22-28-3067	A-42225-0251	24	22-28-3247	A-42225-0269						
07	22-28-3076	A-42225-0217	25	22-28-3256	A-42225-0235	07	22-28-3077	A-42225-0252	25	22-28-3257	A-42225-0270						
08	22-28-3086	A-42225-0218	26	22-28-3266	A-42225-0236	08	22-28-3087	A-42225-0253	26	22-28-3267	A-42225-0271						
09	22-28-3096	A-42225-0219	27	22-28-3276	A-42225-0237	09	22-28-3097	A-42225-0254	27	22-28-3277	A-42225-0272						
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REV:						TITLE:		.100 POLARIZING BREAKAWAY HEADER ASSY.				SHEET No. - 5 -					
DOCUMENT NUMBER:		SD- 42225 -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-42225-0282/0316						A-42225-0488/0518											
HEADER NUMBER:		41410				HEADER NUMBER:		41410									
PIN NUMBER:		42663-AXB228				PIN NUMBER:		42663-AXA154									
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		.140/3.56				GOLD POINT: G		N/A									
PC TAIL LENGTH: P		.120/3.05				PC TAIL LENGTH: P		.120/3.05									
TIN: T		.135/3.43				TIN: T		OVERALL									
CKTS:		3-36				CKTS:		6-36									
KINKS:		NO				KINKS:		NO									
REMOVED BACKWALLS:		YES				REMOVED BACKWALLS:		NO									
VOIDED CKTS:		NONE				VOIDED CKTS:		6									
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	22-28-3208	A-42225-0300	02			20	42225-0502	A-42225-0502						
03	22-28-3038	A-42225-0283	21	22-28-3218	A-42225-0301	03			21	42225-0503	A-42225-0503						
04	22-28-3048	A-42225-0284	22	22-28-3228	A-42225-0302	04			22	42225-0504	A-42225-0504						
05	22-28-3058	A-42225-0285	23	22-28-3238	A-42225-0303	05			23	42225-0505	A-42225-0505						
06	22-28-3068	A-42225-0286	24	22-28-3248	A-42225-0304	06	42225-0488	A-42225-0488	24	42225-0506	A-42225-0506						
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08	22-28-3088	A-42225-0288	26	22-28-3268	A-42225-0306	08	42225-0490	A-42225-0490	26	42225-0508	A-42225-0508						
09	22-28-3098	A-42225-0289	27	22-28-3278	A-42225-0307	09	42225-0491	A-42225-0491	27	42225-0509	A-42225-0509						
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REV:						TITLE:		.100 POLARIZING BREAKAWAY HEADER ASSY.				SHEET No. - 6 -					
DOCUMENT NUMBER:		SD- 42225 -001				CREATED / REVISED BY:		S. LINEHAN 03/04/2004		CHECKED BY:		K.SAMIEC 03/04/2004		APPROVED BY:		Y. MARGULIS 03/04/2004	
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