

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022283203](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Header, Breakaway, Vertical, with Polarizing Wall, 20 Circuits, Tin (Sn) Plating. with Kinked PC Tails

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
 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 Yes
 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



EU RoHS

ELV and RoHS Compliant
REACH SVHC
 Not Reviewed
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](#)

| | |
|-------------------------------|------|
| 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 | 42225-0125 |
|-----------------|------------|

Reference - Drawing Numbers

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

This document was generated on 04/20/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

| NO. OF CKTS. | 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 | .500/10.16 | .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 |



- NOTES:
- MATERIAL: GLASS FILLED NYLON, 94V-0, COLOR: BLACK
 - 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.
 - PRODUCT SPECIFICATION PS 10-07.
 - PACKAGING INFORMATION: SEE TABLES
 - KINK PIN SPECIFICATION: SEE SMES-42003
 - HEADERS ARE NOT STACKABLE ON .100/2.54 CENTERS.
 - SOLDERABILITY PER SMES-152.
 - PIN PUSH OUT FORCE: 3 LBS. MIN.



KINKED PIN DETAIL
SEE NOTE 5



RECOMMENDED PC BOARD LAYOUT



REMOVED POLARIZING WALL OPTION

| | |
|------------------------|-----------------|
| ADD DETAIL VIEWS | QUALITY SYMBOLS |
| EC NO: UCP2005-0488 | ▽=0 |
| DRW: JLOME 2005/08/01 | ▽=0 |
| CHKD: ADERR 2005/08/04 | |
| APPR: FSWJH 2005/08/05 | |
| DESCRIPTION | |
| REV | |

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|---------------------------------------|--|-----------------|--------------|---------------------------------------|
| GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| | IN/MM | 1:1 | INCH | |
| 4 PLACES ± --- ± --- | DRAWN BY JSCHAFFER | DATE 2004/03/20 | TITLE | .100 POLARIZING BREAKAWAY HEADER ASSY |
| 3 PLACES ± --- ± .010 | CHECKED BY | DATE | | |
| 2 PLACES ± 0.25 ± .014 | APPROVED BY MARGULIS | DATE 2004/03/20 | MATERIAL NO. | MOLEX INCORPORATED |
| 1 PLACE ± 0.36 ± --- | ANGULAR ± 1/2° | | DOCUMENT NO. | SD-4225-001 |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | SHEET NO. | 1 OF 6 |

| | |
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| SIZE B | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |
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| 2-K | K |
| 1 | K3 |
| SHEET | REV |

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| A-42225-0002/0036 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXA154 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | N/A | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | OVERALL | | | |
| 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 | 22-28-3020 | A-42225-0002 | 20 | 22-28-3200 | A-42225-0020 |
| 03 | 22-28-3030 | A-42225-0003 | 21 | 22-28-3210 | A-42225-0021 |
| 04 | 22-28-3040 | A-42225-0004 | 22 | 22-28-3220 | A-42225-0022 |
| 05 | 22-28-3050 | A-42225-0005 | 23 | 22-28-3230 | A-42225-0023 |
| 06 | 22-28-3060 | A-42225-0006 | 24 | 22-28-3240 | A-42225-0024 |
| 07 | 22-28-3070 | A-42225-0007 | 25 | 22-28-3250 | A-42225-0025 |
| 08 | 22-28-3080 | A-42225-0008 | 26 | 22-28-3260 | A-42225-0026 |
| 09 | 22-28-3090 | A-42225-0009 | 27 | 22-28-3270 | A-42225-0027 |
| 10 | 22-28-3100 | A-42225-0010 | 28 | 22-28-3280 | A-42225-0028 |
| 11 | 22-28-3110 | A-42225-0011 | 29 | 22-28-3290 | A-42225-0029 |
| 12 | 22-28-3120 | A-42225-0012 | 30 | 22-28-3300 | A-42225-0030 |
| 13 | 22-28-3130 | A-42225-0013 | 31 | 22-28-3310 | A-42225-0031 |
| 14 | 22-28-3140 | A-42225-0014 | 32 | 22-28-3320 | A-42225-0032 |
| 15 | 22-28-3150 | A-42225-0015 | 33 | 22-28-3330 | A-42225-0033 |
| 16 | 22-28-3160 | A-42225-0016 | 34 | 22-28-3340 | A-42225-0034 |
| 17 | 22-28-3170 | A-42225-0017 | 35 | 22-28-3350 | A-42225-0035 |
| 18 | 22-28-3180 | A-42225-0018 | 36 | 22-28-3360 | A-42225-0036 |
| 19 | 22-28-3190 | A-42225-0019 | | | |

| A-42225-0037/0071 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXB208 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | .140/3.56 | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | .100/2.54 | | | |
| 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 | 22-28-3021 | A-42225-0037 | 20 | 22-28-3201 | A-42225-0055 |
| 03 | 22-28-3031 | A-42225-0038 | 21 | 22-28-3211 | A-42225-0056 |
| 04 | 22-28-3041 | A-42225-0039 | 22 | 22-28-3221 | A-42225-0057 |
| 05 | 22-28-3051 | A-42225-0040 | 23 | 22-28-3231 | A-42225-0058 |
| 06 | 22-28-3061 | A-42225-0041 | 24 | 22-28-3241 | A-42225-0059 |
| 07 | 22-28-3071 | A-42225-0042 | 25 | 22-28-3251 | A-42225-0060 |
| 08 | 22-28-3081 | A-42225-0043 | 26 | 22-28-3261 | A-42225-0061 |
| 09 | 22-28-3091 | A-42225-0044 | 27 | 22-28-3271 | A-42225-0062 |
| 10 | 22-28-3101 | A-42225-0045 | 28 | 22-28-3281 | A-42225-0063 |
| 11 | 22-28-3111 | A-42225-0046 | 29 | 22-28-3291 | A-42225-0064 |
| 12 | 22-28-3121 | A-42225-0047 | 30 | 22-28-3301 | A-42225-0065 |
| 13 | 22-28-3131 | A-42225-0048 | 31 | 22-28-3311 | A-42225-0066 |
| 14 | 22-28-3141 | A-42225-0049 | 32 | 22-28-3321 | A-42225-0067 |
| 15 | 22-28-3151 | A-42225-0050 | 33 | 22-28-3331 | A-42225-0068 |
| 16 | 22-28-3161 | A-42225-0051 | 34 | 22-28-3341 | A-42225-0069 |
| 17 | 22-28-3171 | A-42225-0052 | 35 | 22-28-3351 | A-42225-0070 |
| 18 | 22-28-3181 | A-42225-0053 | 36 | 22-28-3361 | A-42225-0071 |
| 19 | 22-28-3191 | A-42225-0054 | | | |

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| REV: | K | TITLE: | .100 POLARIZING BREAKAWAY HEADER ASSY. | SHEET No. | - 2 - |
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| 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 |

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| A-42225-0072/0106 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXB228 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | .140/3.56 | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | .100/2.54 | | | |
| 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 | 22-28-3022 | A-42225-0072 | 20 | 22-28-3202 | A-42225-0090 |
| 03 | 22-28-3032 | A-42225-0073 | 21 | 22-28-3212 | A-42225-0091 |
| 04 | 22-28-3042 | A-42225-0074 | 22 | 22-28-3222 | A-42225-0092 |
| 05 | 22-28-3052 | A-42225-0075 | 23 | 22-28-3232 | A-42225-0093 |
| 06 | 22-28-3062 | A-42225-0076 | 24 | 22-28-3242 | A-42225-0094 |
| 07 | 22-28-3072 | A-42225-0077 | 25 | 22-28-3252 | A-42225-0095 |
| 08 | 22-28-3082 | A-42225-0078 | 26 | 22-28-3262 | A-42225-0096 |
| 09 | 22-28-3092 | A-42225-0079 | 27 | 22-28-3272 | A-42225-0097 |
| 10 | 22-28-3102 | A-42225-0080 | 28 | 22-28-3282 | A-42225-0098 |
| 11 | 22-28-3112 | A-42225-0081 | 29 | 22-28-3292 | A-42225-0099 |
| 12 | 22-28-3122 | A-42225-0082 | 30 | 22-28-3302 | A-42225-0100 |
| 13 | 22-28-3132 | A-42225-0083 | 31 | 22-28-3312 | A-42225-0101 |
| 14 | 22-28-3142 | A-42225-0084 | 32 | 22-28-3322 | A-42225-0102 |
| 15 | 22-28-3152 | A-42225-0085 | 33 | 22-28-3332 | A-42225-0103 |
| 16 | 22-28-3162 | A-42225-0086 | 34 | 22-28-3342 | A-42225-0104 |
| 17 | 22-28-3172 | A-42225-0087 | 35 | 22-28-3352 | A-42225-0105 |
| 18 | 22-28-3182 | A-42225-0088 | 36 | 22-28-3362 | A-42225-0106 |
| 19 | 22-28-3192 | A-42225-0089 | | | |

| A-42225-0107/0141 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| 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 | 22-28-3023 | A-42225-0107 | 20 | 22-28-3203 | A-42225-0125 |
| 03 | 22-28-3033 | A-42225-0108 | 21 | 22-28-3213 | A-42225-0126 |
| 04 | 22-28-3043 | A-42225-0109 | 22 | 22-28-3223 | A-42225-0127 |
| 05 | 22-28-3053 | A-42225-0110 | 23 | 22-28-3233 | A-42225-0128 |
| 06 | 22-28-3063 | A-42225-0111 | 24 | 22-28-3243 | A-42225-0129 |
| 07 | 22-28-3073 | A-42225-0112 | 25 | 22-28-3253 | A-42225-0130 |
| 08 | 22-28-3083 | A-42225-0113 | 26 | 22-28-3263 | A-42225-0131 |
| 09 | 22-28-3093 | A-42225-0114 | 27 | 22-28-3273 | A-42225-0132 |
| 10 | 22-28-3103 | A-42225-0115 | 28 | 22-28-3283 | A-42225-0133 |
| 11 | 22-28-3113 | A-42225-0116 | 29 | 22-28-3293 | A-42225-0134 |
| 12 | 22-28-3123 | A-42225-0117 | 30 | 22-28-3303 | A-42225-0135 |
| 13 | 22-28-3133 | A-42225-0118 | 31 | 22-28-3313 | A-42225-0136 |
| 14 | 22-28-3143 | A-42225-0119 | 32 | 22-28-3323 | A-42225-0137 |
| 15 | 22-28-3153 | A-42225-0120 | 33 | 22-28-3333 | A-42225-0138 |
| 16 | 22-28-3163 | A-42225-0121 | 34 | 22-28-3343 | A-42225-0139 |
| 17 | 22-28-3173 | A-42225-0122 | 35 | 22-28-3353 | A-42225-0140 |
| 18 | 22-28-3183 | A-42225-0123 | 36 | 22-28-3363 | A-42225-0141 |
| 19 | 22-28-3193 | A-42225-0124 | | | |

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| REV: | K | TITLE: | .100 POLARIZING BREAKAWAY HEADER ASSY. | SHEET No. | - 3 - |
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|------------------|----------------|-----------------------|-----------------------|-------------|---------------------|--------------|------------------------|
| 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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| A-42225-0142/0176 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-BAB208 | | | |
| PIN LENGTH: L | | .555/14.10 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | .140/3.56 | | | |
| PC TAIL LENGTH: P | | .135/3.43 | | | |
| TIN: T | | .100/2.54 | | | |
| 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 | 22-28-3024 | A-42225-0142 | 20 | 22-28-3204 | A-42225-0160 |
| 03 | 22-28-3034 | A-42225-0143 | 21 | 22-28-3214 | A-42225-0161 |
| 04 | 22-28-3044 | A-42225-0144 | 22 | 22-28-3224 | A-42225-0162 |
| 05 | 22-28-3054 | A-42225-0145 | 23 | 22-28-3234 | A-42225-0163 |
| 06 | 22-28-3064 | A-42225-0146 | 24 | 22-28-3244 | A-42225-0164 |
| 07 | 22-28-3074 | A-42225-0147 | 25 | 22-28-3254 | A-42225-0165 |
| 08 | 22-28-3084 | A-42225-0148 | 26 | 22-28-3264 | A-42225-0166 |
| 09 | 22-28-3094 | A-42225-0149 | 27 | 22-28-3274 | A-42225-0167 |
| 10 | 22-28-3104 | A-42225-0150 | 28 | 22-28-3284 | A-42225-0168 |
| 11 | 22-28-3114 | A-42225-0151 | 29 | 22-28-3294 | A-42225-0169 |
| 12 | 22-28-3124 | A-42225-0152 | 30 | 22-28-3304 | A-42225-0170 |
| 13 | 22-28-3134 | A-42225-0153 | 31 | 22-28-3314 | A-42225-0171 |
| 14 | 22-28-3144 | A-42225-0154 | 32 | 22-28-3324 | A-42225-0172 |
| 15 | 22-28-3154 | A-42225-0155 | 33 | 22-28-3334 | A-42225-0173 |
| 16 | 22-28-3164 | A-42225-0156 | 34 | 22-28-3344 | A-42225-0174 |
| 17 | 22-28-3174 | A-42225-0157 | 35 | 22-28-3354 | A-42225-0175 |
| 18 | 22-28-3184 | A-42225-0158 | 36 | 22-28-3364 | A-42225-0176 |
| 19 | 22-28-3194 | A-42225-0159 | | | |

| A-42225-0177/0211 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-BAB228 | | | |
| PIN LENGTH: L | | .555/14.10 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | .140/3.56 | | | |
| PC TAIL LENGTH: P | | .135/3.43 | | | |
| TIN: T | | .100/2.54 | | | |
| 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 | 22-28-3025 | A-42225-0177 | 20 | 22-28-3205 | A-42225-0195 |
| 03 | 22-28-3035 | A-42225-0178 | 21 | 22-28-3215 | A-42225-0196 |
| 04 | 22-28-3045 | A-42225-0179 | 22 | 22-28-3225 | A-42225-0197 |
| 05 | 22-28-3055 | A-42225-0180 | 23 | 22-28-3235 | A-42225-0198 |
| 06 | 22-28-3065 | A-42225-0181 | 24 | 22-28-3245 | A-42225-0199 |
| 07 | 22-28-3075 | A-42225-0182 | 25 | 22-28-3255 | A-42225-0200 |
| 08 | 22-28-3085 | A-42225-0183 | 26 | 22-28-3265 | A-42225-0201 |
| 09 | 22-28-3095 | A-42225-0184 | 27 | 22-28-3275 | A-42225-0202 |
| 10 | 22-28-3105 | A-42225-0185 | 28 | 22-28-3285 | A-42225-0203 |
| 11 | 22-28-3115 | A-42225-0186 | 29 | 22-28-3295 | A-42225-0204 |
| 12 | 22-28-3125 | A-42225-0187 | 30 | 22-28-3305 | A-42225-0205 |
| 13 | 22-28-3135 | A-42225-0188 | 31 | 22-28-3315 | A-42225-0206 |
| 14 | 22-28-3145 | A-42225-0189 | 32 | 22-28-3325 | A-42225-0207 |
| 15 | 22-28-3155 | A-42225-0190 | 33 | 22-28-3335 | A-42225-0208 |
| 16 | 22-28-3165 | A-42225-0191 | 34 | 22-28-3345 | A-42225-0209 |
| 17 | 22-28-3175 | A-42225-0192 | 35 | 22-28-3355 | A-42225-0210 |
| 18 | 22-28-3185 | A-42225-0193 | 36 | 22-28-3365 | A-42225-0211 |
| 19 | 22-28-3195 | A-42225-0194 | | | |

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| REV: | | TITLE: | .100 POLARIZING BREAKAWAY HEADER ASSY. | | SHEET No. |
| K | | | | | - 4 - |

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|-----------------------|------------------------------|----------------------------|-------------------------------|
| 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 |

| A-42225-0213/0246 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXA154 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | N/A | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | OVERALL | | | |
| CKTS: | | 3-36 | | | |
| KINKS: | | NO | | | |
| REMOVED BACKWALLS: | | YES | | | |
| VOIDED CKTS: | | NONE | | | |
| PACKAGING: | | BULK 40873-0056 | | | |
| CKTS | MATERIAL NUMBER | ENG NUMBER | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02 | | | 20 | 22-28-3206 | A-42225-0230 |
| 03 | 22-28-3036 | A-42225-0213 | 21 | 22-28-3216 | A-42225-0231 |
| 04 | 22-28-3046 | A-42225-0214 | 22 | 22-28-3226 | A-42225-0232 |
| 05 | 22-28-3056 | A-42225-0215 | 23 | 22-28-3236 | A-42225-0233 |
| 06 | 22-28-3066 | A-42225-0216 | 24 | 22-28-3246 | A-42225-0234 |
| 07 | 22-28-3076 | A-42225-0217 | 25 | 22-28-3256 | A-42225-0235 |
| 08 | 22-28-3086 | A-42225-0218 | 26 | 22-28-3266 | A-42225-0236 |
| 09 | 22-28-3096 | A-42225-0219 | 27 | 22-28-3276 | A-42225-0237 |
| 10 | 22-28-3106 | A-42225-0220 | 28 | 22-28-3286 | A-42225-0238 |
| 11 | 22-28-3116 | A-42225-0221 | 29 | 22-28-3296 | A-42225-0239 |
| 12 | 22-28-3126 | A-42225-0222 | 30 | 22-28-3306 | A-42225-0240 |
| 13 | 22-28-3136 | A-42225-0223 | 31 | 22-28-3316 | A-42225-0241 |
| 14 | 22-28-3146 | A-42225-0224 | 32 | 22-28-3326 | A-42225-0242 |
| 15 | 22-28-3156 | A-42225-0225 | 33 | 22-28-3336 | A-42225-0243 |
| 16 | 22-28-3166 | A-42225-0226 | 34 | 22-28-3346 | A-42225-0244 |
| 17 | 22-28-3176 | A-42225-0227 | 35 | 22-28-3356 | A-42225-0245 |
| 18 | 22-28-3186 | A-42225-0228 | 36 | 22-28-3366 | A-42225-0246 |
| 19 | 22-28-3196 | A-42225-0229 | | | |

| A-42225-0248/0281 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXB208 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | .140/3.56 | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | .135/3.43 | | | |
| CKTS: | | 3-36 | | | |
| KINKS: | | NO | | | |
| REMOVED BACKWALLS: | | YES | | | |
| VOIDED CKTS: | | NONE | | | |
| PACKAGING: | | BULK 40873-0056 | | | |
| CKTS | MATERIAL NUMBER | ENG NUMBER | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02 | | | 20 | 22-28-3207 | A-42225-0265 |
| 03 | 22-28-3037 | A-42225-0248 | 21 | 22-28-3217 | A-42225-0266 |
| 04 | 22-28-3047 | A-42225-0249 | 22 | 22-28-3227 | A-42225-0267 |
| 05 | 22-28-3057 | A-42225-0250 | 23 | 22-28-3237 | A-42225-0268 |
| 06 | 22-28-3067 | A-42225-0251 | 24 | 22-28-3247 | A-42225-0269 |
| 07 | 22-28-3077 | A-42225-0252 | 25 | 22-28-3257 | A-42225-0270 |
| 08 | 22-28-3087 | A-42225-0253 | 26 | 22-28-3267 | A-42225-0271 |
| 09 | 22-28-3097 | A-42225-0254 | 27 | 22-28-3277 | A-42225-0272 |
| 10 | 22-28-3107 | A-42225-0255 | 28 | 22-28-3287 | A-42225-0273 |
| 11 | 22-28-3117 | A-42225-0256 | 29 | 22-28-3297 | A-42225-0274 |
| 12 | 22-28-3127 | A-42225-0257 | 30 | 22-28-3307 | A-42225-0275 |
| 13 | 22-28-3137 | A-42225-0258 | 31 | 22-28-3317 | A-42225-0276 |
| 14 | 22-28-3147 | A-42225-0259 | 32 | 22-28-3327 | A-42225-0277 |
| 15 | 22-28-3157 | A-42225-0260 | 33 | 22-28-3337 | A-42225-0278 |
| 16 | 22-28-3167 | A-42225-0261 | 34 | 22-28-3347 | A-42225-0279 |
| 17 | 22-28-3177 | A-42225-0262 | 35 | 22-28-3357 | A-42225-0280 |
| 18 | 22-28-3187 | A-42225-0263 | 36 | 22-28-3367 | A-42225-0281 |
| 19 | 22-28-3197 | A-42225-0264 | | | |

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|-----------------------|--|------------------------------|---|-------------------------------|--------------|
| REV: | | TITLE: | .100 POLARIZING BREAKAWAY HEADER ASSY. | | SHEET No. |
| K | | | | | - 5 - |
| 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 | |

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| A-42225-0282/0316 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXB228 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | .140/3.56 | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | .135/3.43 | | | |
| CKTS: | | 3-36 | | | |
| KINKS: | | NO | | | |
| REMOVED BACKWALLS: | | YES | | | |
| VOIDED CKTS: | | NONE | | | |
| PACKAGING: | | BULK 40873-0056 | | | |
| CKTS | MATERIAL NUMBER | ENG NUMBER | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02 | | | 20 | 22-28-3208 | A-42225-0300 |
| 03 | 22-28-3038 | A-42225-0283 | 21 | 22-28-3218 | A-42225-0301 |
| 04 | 22-28-3048 | A-42225-0284 | 22 | 22-28-3228 | A-42225-0302 |
| 05 | 22-28-3058 | A-42225-0285 | 23 | 22-28-3238 | A-42225-0303 |
| 06 | 22-28-3068 | A-42225-0286 | 24 | 22-28-3248 | A-42225-0304 |
| 07 | 22-28-3078 | A-42225-0287 | 25 | 22-28-3258 | A-42225-0305 |
| 08 | 22-28-3088 | A-42225-0288 | 26 | 22-28-3268 | A-42225-0306 |
| 09 | 22-28-3098 | A-42225-0289 | 27 | 22-28-3278 | A-42225-0307 |
| 10 | 22-28-3108 | A-42225-0290 | 28 | 22-28-3288 | A-42225-0308 |
| 11 | 22-28-3118 | A-42225-0291 | 29 | 22-28-3298 | A-42225-0309 |
| 12 | 22-28-3128 | A-42225-0292 | 30 | 22-28-3308 | A-42225-0310 |
| 13 | 22-28-3138 | A-42225-0293 | 31 | 22-28-3318 | A-42225-0311 |
| 14 | 22-28-3148 | A-42225-0294 | 32 | 22-28-3328 | A-42225-0312 |
| 15 | 22-28-3158 | A-42225-0295 | 33 | 22-28-3338 | A-42225-0313 |
| 16 | 22-28-3168 | A-42225-0296 | 34 | 22-28-3348 | A-42225-0314 |
| 17 | 22-28-3178 | A-42225-0297 | 35 | 22-28-3358 | A-42225-0315 |
| 18 | 22-28-3188 | A-42225-0298 | 36 | 22-28-3368 | A-42225-0316 |
| 19 | 22-28-3198 | A-42225-0299 | | | |

| A-42225-0488/0518 | | | | | |
|--------------------|-----------------|-----------------|------|-----------------|--------------|
| HEADER NUMBER: | | 41410 | | | |
| PIN NUMBER: | | 42663-AXA154 | | | |
| PIN LENGTH: L | | .540/13.72 | | | |
| MATING LENGTH: M | | .295/7.49 | | | |
| GOLD POINT: G | | N/A | | | |
| PC TAIL LENGTH: P | | .120/3.05 | | | |
| TIN: T | | OVERALL | | | |
| CKTS: | | 6-36 | | | |
| KINKS: | | NO | | | |
| REMOVED BACKWALLS: | | NO | | | |
| VOIDED CKTS: | | 6 | | | |
| PACKAGING: | | BULK 40873-0056 | | | |
| CKTS | MATERIAL NUMBER | ENG NUMBER | CKTS | MATERIAL NUMBER | ENG NUMBER |
| 02 | | | 20 | 42225-0502 | A-42225-0502 |
| 03 | | | 21 | 42225-0503 | A-42225-0503 |
| 04 | | | 22 | 42225-0504 | A-42225-0504 |
| 05 | | | 23 | 42225-0505 | A-42225-0505 |
| 06 | 42225-0488 | A-42225-0488 | 24 | 42225-0506 | A-42225-0506 |
| 07 | 42225-0489 | A-42225-0489 | 25 | 42225-0507 | A-42225-0507 |
| 08 | 42225-0490 | A-42225-0490 | 26 | 42225-0508 | A-42225-0508 |
| 09 | 42225-0491 | A-42225-0491 | 27 | 42225-0509 | A-42225-0509 |
| 10 | 42225-0492 | A-42225-0492 | 28 | 42225-0510 | A-42225-0510 |
| 11 | 42225-0493 | A-42225-0493 | 29 | 42225-0511 | A-42225-0511 |
| 12 | 42225-0494 | A-42225-0494 | 30 | 42225-0512 | A-42225-0512 |
| 13 | 42225-0495 | A-42225-0495 | 31 | 42225-0513 | A-42225-0513 |
| 14 | 42225-0496 | A-42225-0496 | 32 | 42225-0514 | A-42225-0514 |
| 15 | 42225-0497 | A-42225-0497 | 33 | 42225-0515 | A-42225-0515 |
| 16 | 42225-0498 | A-42225-0498 | 34 | 42225-0516 | A-42225-0516 |
| 17 | 42225-0499 | A-42225-0499 | 35 | 42225-0517 | A-42225-0517 |
| 18 | 42225-0500 | A-42225-0500 | 36 | 42225-0518 | A-42225-0518 |
| 19 | 42225-0501 | A-42225-0501 | | | |

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| REV: | | TITLE: | .100 POLARIZING BREAKAWAY HEADER ASSY. | | SHEET No. |
| K | | | | | - 6 - |

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|-----------------------|------------------------------|----------------------------|-------------------------------|
| 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 |