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**Part Number:** [0022282322](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Header, Breakaway, Right Angle, with Plastic Polarizing Peg, 32 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating

**Documents:**

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>                      | <a href="#">Product Specification PS-10-07 (PDF)</a> |
| <a href="#">Packaging Specification (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                 |                                                      |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
|-----|---------|

**General**

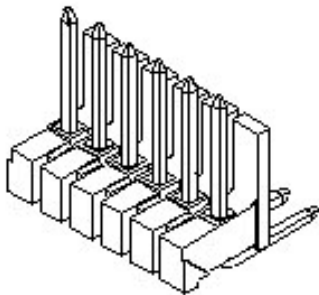
|                |                       |
|----------------|-----------------------|
| Product Family | PCB Headers           |
| Series         | <a href="#">42226</a> |
| Application    | Wire-to-Board         |
| Product Name   | KK®                   |

**Physical**

|                                |              |
|--------------------------------|--------------|
| Breakaway                      | Yes          |
| Circuits (Loaded)              | 32           |
| Circuits (maximum)             | 32           |
| Color - Resin                  | Black        |
| 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 - 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)      | 15           |
| Plating min: Mating (µm)       | 0.375        |
| 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**

|                               |    |
|-------------------------------|----|
| Current - Maximum per Contact | 4A |
|-------------------------------|----|



Series

image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Contains SVHC: No**  
**Halogen-Free  
Status**

**China RoHS**



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environmental compliance?**

Email [productcompliance@molex.com](mailto: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**  
[42226Series](#)

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

|                                                |                        |
|------------------------------------------------|------------------------|
| Voltage - Maximum                              | 250V                   |
| <b>Solder Process Data</b>                     |                        |
| 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                    |
| <b>Material Info</b>                           |                        |
| Old Part Number                                | 42226-0067             |
| <b>Reference - Drawing Numbers</b>             |                        |
| Product Specification                          | PS-10-07               |
| Sales Drawing                                  | SD-42226-001           |

This document was generated on 04/19/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



|                    |                 |                 |      |                 |              |                    |                 |                 |      |                 |              |
|--------------------|-----------------|-----------------|------|-----------------|--------------|--------------------|-----------------|-----------------|------|-----------------|--------------|
| A-42226-0002/0036  |                 |                 |      |                 |              | A-42226-0037/0071  |                 |                 |      |                 |              |
| HEADER NUMBER:     |                 | 41410           |      |                 |              | HEADER NUMBER:     |                 | 41410           |      |                 |              |
| PIN NUMBER:        |                 | 42663-CCA154    |      |                 |              | PIN NUMBER:        |                 | 42663-CCB208    |      |                 |              |
| PIN LENGTH: L      |                 | .670/17.02      |      |                 |              | PIN LENGTH: L      |                 | .670/17.02      |      |                 |              |
| 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 |      |                 |              |
| CKTS               | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER | ENG NUMBER   | CKTS               | MATERIAL NUMBER | ENG NUMBER      | CKTS | MATERIAL NUMBER | ENG NUMBER   |
| 02                 | 22-28-2020      | A-42226-0002    | 20   | 22-28-2200      | A-42226-0020 | 02                 | 22-28-2022      | A-42226-0037    | 20   | 22-28-2202      | A-42226-0055 |
| 03                 | 22-28-2030      | A-42226-0003    | 21   | 22-28-2210      | A-42226-0021 | 03                 | 22-28-2032      | A-42226-0038    | 21   | 22-28-2212      | A-42226-0056 |
| 04                 | 22-28-2040      | A-42226-0004    | 22   | 22-28-2220      | A-42226-0022 | 04                 | 22-28-2042      | A-42226-0039    | 22   | 22-28-2222      | A-42226-0057 |
| 05                 | 22-28-2050      | A-42226-0005    | 23   | 22-28-2230      | A-42226-0023 | 05                 | 22-28-2052      | A-42226-0040    | 23   | 22-28-2232      | A-42226-0058 |
| 06                 | 22-28-2060      | A-42226-0006    | 24   | 22-28-2240      | A-42226-0024 | 06                 | 22-28-2062      | A-42226-0041    | 24   | 22-28-2242      | A-42226-0059 |
| 07                 | 22-28-2070      | A-42226-0007    | 25   | 22-28-2250      | A-42226-0025 | 07                 | 22-28-2072      | A-42226-0042    | 25   | 22-28-2252      | A-42226-0060 |
| 08                 | 22-28-2080      | A-42226-0008    | 26   | 22-28-2260      | A-42226-0026 | 08                 | 22-28-2082      | A-42226-0043    | 26   | 22-28-2262      | A-42226-0061 |
| 09                 | 22-28-2090      | A-42226-0009    | 27   | 22-28-2270      | A-42226-0027 | 09                 | 22-28-2092      | A-42226-0044    | 27   | 22-28-2272      | A-42226-0062 |
| 10                 | 22-28-2100      | A-42226-0010    | 28   | 22-28-2280      | A-42226-0028 | 10                 | 22-28-2102      | A-42226-0045    | 28   | 22-28-2282      | A-42226-0063 |
| 11                 | 22-28-2110      | A-42226-0011    | 29   | 22-28-2290      | A-42226-0029 | 11                 | 22-28-2112      | A-42226-0046    | 29   | 22-28-2292      | A-42226-0064 |
| 12                 | 22-28-2120      | A-42226-0012    | 30   | 22-28-2300      | A-42226-0030 | 12                 | 22-28-2122      | A-42226-0047    | 30   | 22-28-2302      | A-42226-0065 |
| 13                 | 22-28-2130      | A-42226-0013    | 31   | 22-28-2310      | A-42226-0031 | 13                 | 22-28-2132      | A-42226-0048    | 31   | 22-28-2312      | A-42226-0066 |
| 14                 | 22-28-2140      | A-42226-0014    | 32   | 22-28-2320      | A-42226-0032 | 14                 | 22-28-2142      | A-42226-0049    | 32   | 22-28-2322      | A-42226-0067 |
| 15                 | 22-28-2150      | A-42226-0015    | 33   | 22-28-2330      | A-42226-0033 | 15                 | 22-28-2152      | A-42226-0050    | 33   | 22-28-2332      | A-42226-0068 |
| 16                 | 22-28-2160      | A-42226-0016    | 34   | 22-28-2340      | A-42226-0034 | 16                 | 22-28-2162      | A-42226-0051    | 34   | 22-28-2342      | A-42226-0069 |
| 17                 | 22-28-2170      | A-42226-0017    | 35   | 22-28-2350      | A-42226-0035 | 17                 | 22-28-2172      | A-42226-0052    | 35   | 22-28-2352      | A-42226-0070 |
| 18                 | 22-28-2180      | A-42226-0018    | 36   | 22-28-2360      | A-42226-0036 | 18                 | 22-28-2182      | A-42226-0053    | 36   | 22-28-2362      | A-42226-0071 |
| 19                 | 22-28-2190      | A-42226-0019    |      |                 |              | 19                 | 22-28-2192      | A-42226-0054    |      |                 |              |

|                  |  |                                           |                     |                        |
|------------------|--|-------------------------------------------|---------------------|------------------------|
| REV:             |  | TITLE:                                    |                     | SHEET No.              |
| J                |  | .100 POLARIZING<br>BREAKAWAY HEADER ASSY. |                     | - 2 -                  |
| DOCUMENT NUMBER: |  | CREATED / REVISED BY:                     | CHECKED BY:         | APPROVED BY:           |
| SD- 42226 -001   |  | S. LINEHAN 03/04/2004                     | K.SAMIEC 03/04/2003 | Y. MARGULIS 03/04/2004 |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|                                                  |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
|--------------------------------------------------|-----------------|-----------------|------|-----------------|--------------|-----------------------|-----------------|-------------------------------------------|------|-----------------|--------------|---------------------------|--|--------------|--|------------------------|--|
| A-42226-0072/0106                                |                 |                 |      |                 |              | A-42226-0107/0141     |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
| HEADER NUMBER:                                   |                 | 41410           |      |                 |              | HEADER NUMBER:        |                 | 41410                                     |      |                 |              |                           |  |              |  |                        |  |
| PIN NUMBER:                                      |                 | 42663-CCB228    |      |                 |              | PIN NUMBER:           |                 | 42663-CFA154                              |      |                 |              |                           |  |              |  |                        |  |
| PIN LENGTH: L                                    |                 | .670/17.02      |      |                 |              | PIN LENGTH: L         |                 | .685/17.40                                |      |                 |              |                           |  |              |  |                        |  |
| 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                                       |      |                 |              |                           |  |              |  |                        |  |
| 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                                               | 22-28-2023      | A-42226-0072    | 20   | 22-28-2203      | A-42226-0090 | 02                    | 22-28-2024      | A-42226-0107                              | 20   | 22-28-2204      | A-42226-0125 |                           |  |              |  |                        |  |
| 03                                               | 22-28-2033      | A-42226-0073    | 21   | 22-28-2213      | A-42226-0091 | 03                    | 22-28-2034      | A-42226-0108                              | 21   | 22-28-2214      | A-42226-0126 |                           |  |              |  |                        |  |
| 04                                               | 22-28-2043      | A-42226-0074    | 22   | 22-28-2223      | A-42226-0092 | 04                    | 22-28-2044      | A-42226-0109                              | 22   | 22-28-2224      | A-42226-0127 |                           |  |              |  |                        |  |
| 05                                               | 22-28-2053      | A-42226-0075    | 23   | 22-28-2233      | A-42226-0093 | 05                    | 22-28-2054      | A-42226-0110                              | 23   | 22-28-2234      | A-42226-0128 |                           |  |              |  |                        |  |
| 06                                               | 22-28-2063      | A-42226-0076    | 24   | 22-28-2243      | A-42226-0094 | 06                    | 22-28-2064      | A-42226-0111                              | 24   | 22-28-2244      | A-42226-0129 |                           |  |              |  |                        |  |
| 07                                               | 22-28-2073      | A-42226-0077    | 25   | 22-28-2253      | A-42226-0095 | 07                    | 22-28-2074      | A-42226-0112                              | 25   | 22-28-2254      | A-42226-0130 |                           |  |              |  |                        |  |
| 08                                               | 22-28-2083      | A-42226-0078    | 26   | 22-28-2263      | A-42226-0096 | 08                    | 22-28-2084      | A-42226-0113                              | 26   | 22-28-2264      | A-42226-0131 |                           |  |              |  |                        |  |
| 09                                               | 22-28-2093      | A-42226-0079    | 27   | 22-28-2273      | A-42226-0097 | 09                    | 22-28-2094      | A-42226-0114                              | 27   | 22-28-2274      | A-42226-0132 |                           |  |              |  |                        |  |
| 10                                               | 22-28-2103      | A-42226-0080    | 28   | 22-28-2283      | A-42226-0098 | 10                    | 22-28-2104      | A-42226-0115                              | 28   | 22-28-2284      | A-42226-0133 |                           |  |              |  |                        |  |
| 11                                               | 22-28-2113      | A-42226-0081    | 29   | 22-28-2293      | A-42226-0099 | 11                    | 22-28-2114      | A-42226-0116                              | 29   | 22-28-2294      | A-42226-0134 |                           |  |              |  |                        |  |
| 12                                               | 22-28-2123      | A-42226-0082    | 30   | 22-28-2303      | A-42226-0100 | 12                    | 22-28-2124      | A-42226-0117                              | 30   | 22-28-2304      | A-42226-0135 |                           |  |              |  |                        |  |
| 13                                               | 22-28-2133      | A-42226-0083    | 31   | 22-28-2313      | A-42226-0101 | 13                    | 22-28-2134      | A-42226-0118                              | 31   | 22-28-2314      | A-42226-0136 |                           |  |              |  |                        |  |
| 14                                               | 22-28-2143      | A-42226-0084    | 32   | 22-28-2323      | A-42226-0102 | 14                    | 22-28-2144      | A-42226-0119                              | 32   | 22-28-2324      | A-42226-0137 |                           |  |              |  |                        |  |
| 15                                               | 22-28-2153      | A-42226-0085    | 33   | 22-28-2333      | A-42226-0103 | 15                    | 22-28-2154      | A-42226-0120                              | 33   | 22-28-2334      | A-42226-0138 |                           |  |              |  |                        |  |
| 16                                               | 22-28-2163      | A-42226-0086    | 34   | 22-28-2343      | A-42226-0104 | 16                    | 22-28-2164      | A-42226-0121                              | 34   | 22-28-2344      | A-42226-0139 |                           |  |              |  |                        |  |
| 17                                               | 22-28-2173      | A-42226-0087    | 35   | 22-28-2353      | A-42226-0105 | 17                    | 22-28-2174      | A-42226-0122                              | 35   | 22-28-2354      | A-42226-0140 |                           |  |              |  |                        |  |
| 18                                               | 22-28-2183      | A-42226-0088    | 36   | 22-28-2363      | A-42226-0106 | 18                    | 22-28-2184      | A-42226-0123                              | 36   | 22-28-2364      | A-42226-0141 |                           |  |              |  |                        |  |
| 19                                               | 22-28-2193      | A-42226-0089    |      |                 |              | 19                    | 22-28-2194      | A-42226-0124                              |      |                 |              |                           |  |              |  |                        |  |
| REV:                                             |                 |                 |      |                 |              | TITLE:                |                 | .100 POLARIZING<br>BREAKAWAY HEADER ASSY. |      |                 |              | SHEET No.<br><b>- 3 -</b> |  |              |  |                        |  |
| DOCUMENT NUMBER:                                 |                 | SD- 42226 -001  |      |                 |              | CREATED / REVISED BY: |                 | S. LINEHAN 03/04/2004                     |      | CHECKED BY:     |              | K.SAMIEC 03/04/2003       |  | APPROVED BY: |  | Y. MARGULIS 03/04/2004 |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |

|                                                  |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
|--------------------------------------------------|-----------------|-----------------|------|-----------------|--------------|-----------------------|-----------------|-------------------------------------------|------|-----------------|--------------|---------------------------|--|--------------|--|------------------------|--|
|                                                  |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
| A-42226-0142/0176                                |                 |                 |      |                 |              | A-42226-0177/0211     |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
| HEADER NUMBER:                                   |                 | 41410           |      |                 |              | HEADER NUMBER:        |                 | 41410                                     |      |                 |              |                           |  |              |  |                        |  |
| PIN NUMBER:                                      |                 | 42663-CFB208    |      |                 |              | PIN NUMBER:           |                 | 42663-CFB228                              |      |                 |              |                           |  |              |  |                        |  |
| PIN LENGTH: L                                    |                 | .685/17.40      |      |                 |              | PIN LENGTH: L         |                 | .685/17.40                                |      |                 |              |                           |  |              |  |                        |  |
| 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                                 |      |                 |              |                           |  |              |  |                        |  |
| DIMENSION Y                                      |                 | .022/0.56       |      |                 |              | DIMENSION Y           |                 | .022/0.56                                 |      |                 |              |                           |  |              |  |                        |  |
| 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                                               | 22-28-2025      | A-42226-0142    | 20   | 22-28-2205      | A-42226-0160 | 02                    | 22-28-2026      | A-42226-0177                              | 20   | 22-28-2206      | A-42226-0195 |                           |  |              |  |                        |  |
| 03                                               | 22-28-2035      | A-42226-0143    | 21   | 22-28-2215      | A-42226-0161 | 03                    | 22-28-2036      | A-42226-0178                              | 21   | 22-28-2216      | A-42226-0196 |                           |  |              |  |                        |  |
| 04                                               | 22-28-2045      | A-42226-0144    | 22   | 22-28-2225      | A-42226-0162 | 04                    | 22-28-2046      | A-42226-0179                              | 22   | 22-28-2226      | A-42226-0197 |                           |  |              |  |                        |  |
| 05                                               | 22-28-2055      | A-42226-0145    | 23   | 22-28-2235      | A-42226-0163 | 05                    | 22-28-2056      | A-42226-0180                              | 23   | 22-28-2236      | A-42226-0198 |                           |  |              |  |                        |  |
| 06                                               | 22-28-2065      | A-42226-0146    | 24   | 22-28-2245      | A-42226-0164 | 06                    | 22-28-2066      | A-42226-0181                              | 24   | 22-28-2246      | A-42226-0199 |                           |  |              |  |                        |  |
| 07                                               | 22-28-2075      | A-42226-0147    | 25   | 22-28-2255      | A-42226-0165 | 07                    | 22-28-2076      | A-42226-0182                              | 25   | 22-28-2256      | A-42226-0200 |                           |  |              |  |                        |  |
| 08                                               | 22-28-2085      | A-42226-0148    | 26   | 22-28-2265      | A-42226-0166 | 08                    | 22-28-2086      | A-42226-0183                              | 26   | 22-28-2266      | A-42226-0201 |                           |  |              |  |                        |  |
| 09                                               | 22-28-2095      | A-42226-0149    | 27   | 22-28-2275      | A-42226-0167 | 09                    | 22-28-2096      | A-42226-0184                              | 27   | 22-28-2276      | A-42226-0202 |                           |  |              |  |                        |  |
| 10                                               | 22-28-2105      | A-42226-0150    | 28   | 22-28-2285      | A-42226-0168 | 10                    | 22-28-2106      | A-42226-0185                              | 28   | 22-28-2286      | A-42226-0203 |                           |  |              |  |                        |  |
| 11                                               | 22-28-2115      | A-42226-0151    | 29   | 22-28-2295      | A-42226-0169 | 11                    | 22-28-2116      | A-42226-0186                              | 29   | 22-28-2296      | A-42226-0204 |                           |  |              |  |                        |  |
| 12                                               | 22-28-2125      | A-42226-0152    | 30   | 22-28-2305      | A-42226-0170 | 12                    | 22-28-2126      | A-42226-0187                              | 30   | 22-28-2306      | A-42226-0205 |                           |  |              |  |                        |  |
| 13                                               | 22-28-2135      | A-42226-0153    | 31   | 22-28-2315      | A-42226-0171 | 13                    | 22-28-2136      | A-42226-0188                              | 31   | 22-28-2316      | A-42226-0206 |                           |  |              |  |                        |  |
| 14                                               | 22-28-2145      | A-42226-0154    | 32   | 22-28-2325      | A-42226-0172 | 14                    | 22-28-2146      | A-42226-0189                              | 32   | 22-28-2326      | A-42226-0207 |                           |  |              |  |                        |  |
| 15                                               | 22-28-2155      | A-42226-0155    | 33   | 22-28-2335      | A-42226-0173 | 15                    | 22-28-2156      | A-42226-0190                              | 33   | 22-28-2336      | A-42226-0208 |                           |  |              |  |                        |  |
| 16                                               | 22-28-2165      | A-42226-0156    | 34   | 22-28-2345      | A-42226-0174 | 16                    | 22-28-2166      | A-42226-0191                              | 34   | 22-28-2346      | A-42226-0209 |                           |  |              |  |                        |  |
| 17                                               | 22-28-2175      | A-42226-0157    | 35   | 22-28-2355      | A-42226-0175 | 17                    | 22-28-2176      | A-42226-0192                              | 35   | 22-28-2356      | A-42226-0210 |                           |  |              |  |                        |  |
| 18                                               | 22-28-2185      | A-42226-0158    | 36   | 22-28-2365      | A-42226-0176 | 18                    | 22-28-2186      | A-42226-0193                              | 36   | 22-28-2366      | A-42226-0211 |                           |  |              |  |                        |  |
| 19                                               | 22-28-2195      | A-42226-0159    |      |                 |              | 19                    | 22-28-2196      | A-42226-0194                              |      |                 |              |                           |  |              |  |                        |  |
| REV:                                             |                 |                 |      |                 |              | TITLE:                |                 | .100 POLARIZING<br>BREAKAWAY HEADER ASSY. |      |                 |              | SHEET No.<br><b>- 4 -</b> |  |              |  |                        |  |
| DOCUMENT NUMBER:                                 |                 | SD- 42226 -001  |      |                 |              | CREATED / REVISED BY: |                 | S. LINEHAN 03/04/2004                     |      | CHECKED BY:     |              | K.SAMIEC 03/04/2003       |  | APPROVED BY: |  | Y. MARGULIS 03/04/2004 |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |

|                                                  |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
|--------------------------------------------------|-----------------|-----------------|------|-----------------|--------------|-----------------------|-----------------|-------------------------------------------|------|-----------------|--------------|---------------------------|--|--------------|--|------------------------|--|
|                                                  |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
| A-42226-0213/0246                                |                 |                 |      |                 |              | A-42226-0248/0281     |                 |                                           |      |                 |              |                           |  |              |  |                        |  |
| HEADER NUMBER:                                   |                 | 41410           |      |                 |              | HEADER NUMBER:        |                 | 41410                                     |      |                 |              |                           |  |              |  |                        |  |
| PIN NUMBER:                                      |                 | 42663-CCA154    |      |                 |              | PIN NUMBER:           |                 | 42663-CCB208                              |      |                 |              |                           |  |              |  |                        |  |
| PIN LENGTH: L                                    |                 | .670/17.02      |      |                 |              | PIN LENGTH: L         |                 | .670/17.02                                |      |                 |              |                           |  |              |  |                        |  |
| 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:                                            |                 | 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   |                           |  |              |  |                        |  |
| 02                                               |                 |                 | 20   | 22-28-2207      | A-42226-0230 | 02                    |                 |                                           | 20   | 22-28-2208      | A-42226-0265 |                           |  |              |  |                        |  |
| 03                                               | 22-28-2037      | A-42226-0213    | 21   | 22-28-2217      | A-42226-0231 | 03                    | 22-28-2038      | A-42226-0248                              | 21   | 22-28-2218      | A-42226-0266 |                           |  |              |  |                        |  |
| 04                                               | 22-28-2047      | A-42226-0214    | 22   | 22-28-2227      | A-42226-0232 | 04                    | 22-28-2048      | A-42226-0249                              | 22   | 22-28-2228      | A-42226-0267 |                           |  |              |  |                        |  |
| 05                                               | 22-28-2057      | A-42226-0215    | 23   | 22-28-2237      | A-42226-0233 | 05                    | 22-28-2058      | A-42226-0250                              | 23   | 22-28-2238      | A-42226-0268 |                           |  |              |  |                        |  |
| 06                                               | 22-28-2077      | A-42226-0216    | 24   | 22-28-2247      | A-42226-0234 | 06                    | 22-28-2068      | A-42226-0251                              | 24   | 22-28-2248      | A-42226-0269 |                           |  |              |  |                        |  |
| 07                                               | 22-28-2077      | A-42226-0217    | 25   | 22-28-2257      | A-42226-0235 | 07                    | 22-28-2078      | A-42226-0252                              | 25   | 22-28-2258      | A-42226-0270 |                           |  |              |  |                        |  |
| 08                                               | 22-28-2087      | A-42226-0218    | 26   | 22-28-2267      | A-42226-0236 | 08                    | 22-28-2088      | A-42226-0253                              | 26   | 22-28-2268      | A-42226-0271 |                           |  |              |  |                        |  |
| 09                                               | 22-28-2097      | A-42226-0219    | 27   | 22-28-2277      | A-42226-0237 | 09                    | 22-28-2098      | A-42226-0254                              | 27   | 22-28-2278      | A-42226-0272 |                           |  |              |  |                        |  |
| 10                                               | 22-28-2107      | A-42226-0220    | 28   | 22-28-2287      | A-42226-0238 | 10                    | 22-28-2108      | A-42226-0255                              | 28   | 22-28-2288      | A-42226-0273 |                           |  |              |  |                        |  |
| 11                                               | 22-28-2117      | A-42226-0221    | 29   | 22-28-2297      | A-42226-0239 | 11                    | 22-28-2118      | A-42226-0256                              | 29   | 22-28-2298      | A-42226-0274 |                           |  |              |  |                        |  |
| 12                                               | 22-28-2127      | A-42226-0222    | 30   | 22-28-2307      | A-42226-0240 | 12                    | 22-28-2128      | A-42226-0257                              | 30   | 22-28-2308      | A-42226-0275 |                           |  |              |  |                        |  |
| 13                                               | 22-28-2137      | A-42226-0223    | 31   | 22-28-2317      | A-42226-0241 | 13                    | 22-28-2138      | A-42226-0258                              | 31   | 22-28-2318      | A-42226-0276 |                           |  |              |  |                        |  |
| 14                                               | 22-28-2147      | A-42226-0224    | 32   | 22-28-2327      | A-42226-0242 | 14                    | 22-28-2148      | A-42226-0259                              | 32   | 22-28-2328      | A-42226-0277 |                           |  |              |  |                        |  |
| 15                                               | 22-28-2157      | A-42226-0225    | 33   | 22-28-2337      | A-42226-0243 | 15                    | 22-28-2158      | A-42226-0260                              | 33   | 22-28-2338      | A-42226-0278 |                           |  |              |  |                        |  |
| 16                                               | 22-28-2167      | A-42226-0226    | 34   | 22-28-2347      | A-42226-0244 | 16                    | 22-28-2168      | A-42226-0261                              | 34   | 22-28-2348      | A-42226-0279 |                           |  |              |  |                        |  |
| 17                                               | 22-28-2177      | A-42226-0227    | 35   | 22-28-2357      | A-42226-0245 | 17                    | 22-28-2178      | A-42226-0262                              | 35   | 22-28-2358      | A-42226-0280 |                           |  |              |  |                        |  |
| 18                                               | 22-28-2187      | A-42226-0228    | 36   | 22-28-2367      | A-42226-0246 | 18                    | 22-28-2188      | A-42226-0263                              | 36   | 22-28-2368      | A-42226-0281 |                           |  |              |  |                        |  |
| 19                                               | 22-28-2197      | A-42226-0229    |      |                 |              | 19                    | 22-28-2198      | A-42226-0264                              |      |                 |              |                           |  |              |  |                        |  |
| REV:                                             |                 |                 |      |                 |              | TITLE:                |                 | .100 POLARIZING<br>BREAKAWAY HEADER ASSY. |      |                 |              | SHEET No.<br><b>- 5 -</b> |  |              |  |                        |  |
| DOCUMENT NUMBER:                                 |                 | SD- 42226 -001  |      |                 |              | CREATED / REVISED BY: |                 | S. LINEHAN 03/04/2004                     |      | CHECKED BY:     |              | K.SAMIEC 03/04/2003       |  | APPROVED BY: |  | Y. MARGULIS 03/04/2004 |  |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                 |                 |      |                 |              |                       |                 |                                           |      |                 |              |                           |  |              |  |                        |  |

|                    |                 |                 |      |                 |              |                    |                 |                 |      |                 |              |
|--------------------|-----------------|-----------------|------|-----------------|--------------|--------------------|-----------------|-----------------|------|-----------------|--------------|
| A-42226-0283/0316  |                 |                 |      |                 |              | A-42226-0318/0351  |                 |                 |      |                 |              |
| HEADER NUMBER:     |                 | 41410           |      |                 |              | HEADER NUMBER:     |                 | 41410           |      |                 |              |
| PIN NUMBER:        |                 | 42663-CCB228    |      |                 |              | PIN NUMBER:        |                 | 42663-CFA154    |      |                 |              |
| PIN LENGTH: L      |                 | .670/17.02      |      |                 |              | PIN LENGTH: L      |                 | .685/17.40      |      |                 |              |
| 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:              |                 | 3-36            |      |                 |              | CKTS:              |                 | 3-36            |      |                 |              |
| KINKS:             |                 | NO              |      |                 |              | KINKS:             |                 | YES             |      |                 |              |
| 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   |
| 02                 |                 |                 | 20   | 22-28-2209      | A-42226-0300 | 02                 |                 |                 | 20   | 22-31-4200      | A-42226-0335 |
| 03                 | 22-28-2039      | A-42226-0283    | 21   | 22-28-2219      | A-42226-0301 | 03                 | 22-31-4030      | A-42226-0318    | 21   | 22-31-4210      | A-42226-0336 |
| 04                 | 22-28-2049      | A-42226-0284    | 22   | 22-28-2229      | A-42226-0302 | 04                 | 22-31-4040      | A-42226-0319    | 22   | 22-31-4220      | A-42226-0337 |
| 05                 | 22-28-2059      | A-42226-0285    | 23   | 22-28-2239      | A-42226-0303 | 05                 | 22-31-4050      | A-42226-0320    | 23   | 22-31-4230      | A-42226-0338 |
| 06                 | 22-28-2069      | A-42226-0286    | 24   | 22-28-2249      | A-42226-0304 | 06                 | 22-31-4060      | A-42226-0321    | 24   | 22-31-4240      | A-42226-0339 |
| 07                 | 22-28-2079      | A-42226-0287    | 25   | 22-28-2259      | A-42226-0305 | 07                 | 22-31-4070      | A-42226-0322    | 25   | 22-31-4250      | A-42226-0340 |
| 08                 | 22-28-2089      | A-42226-0288    | 26   | 22-28-2269      | A-42226-0306 | 08                 | 22-31-4080      | A-42226-0323    | 26   | 22-31-4260      | A-42226-0341 |
| 09                 | 22-28-2099      | A-42226-0289    | 27   | 22-28-2279      | A-42226-0307 | 09                 | 22-31-4090      | A-42226-0324    | 27   | 22-31-4270      | A-42226-0342 |
| 10                 | 22-28-2109      | A-42226-0290    | 28   | 22-28-2289      | A-42226-0308 | 10                 | 22-31-4100      | A-42226-0325    | 28   | 22-31-4280      | A-42226-0343 |
| 11                 | 22-28-2119      | A-42226-0291    | 29   | 22-28-2299      | A-42226-0309 | 11                 | 22-31-4110      | A-42226-0326    | 29   | 22-31-4200      | A-42226-0344 |
| 12                 | 22-28-2129      | A-42226-0292    | 30   | 22-28-2309      | A-42226-0310 | 12                 | 22-31-4120      | A-42226-0327    | 30   | 22-31-4300      | A-42226-0345 |
| 13                 | 22-28-2139      | A-42226-0293    | 31   | 22-28-2319      | A-42226-0311 | 13                 | 22-31-4130      | A-42226-0328    | 31   | 22-31-4310      | A-42226-0346 |
| 14                 | 22-28-2149      | A-42226-0294    | 32   | 22-28-2329      | A-42226-0312 | 14                 | 22-31-4140      | A-42226-0329    | 32   | 22-31-4320      | A-42226-0347 |
| 15                 | 22-28-2159      | A-42226-0295    | 33   | 22-28-2339      | A-42226-0313 | 15                 | 22-31-4150      | A-42226-0330    | 33   | 22-31-4330      | A-42226-0348 |
| 16                 | 22-28-2169      | A-42226-0296    | 34   | 22-28-2349      | A-42226-0314 | 16                 | 22-31-4160      | A-42226-0331    | 34   | 22-31-4340      | A-42226-0349 |
| 17                 | 22-28-2179      | A-42226-0297    | 35   | 22-28-2359      | A-42226-0315 | 17                 | 22-31-4170      | A-42226-0332    | 35   | 22-31-4350      | A-42226-0350 |
| 18                 | 22-28-2189      | A-42226-0298    | 36   | 22-28-2369      | A-42226-0316 | 18                 | 22-31-4180      | A-42226-0333    | 36   | 22-31-4360      | A-42226-0351 |
| 19                 | 22-28-2199      | A-42226-0299    |      |                 |              | 19                 | 22-31-4190      | A-42226-0334    |      |                 |              |

|                                    |  |                                                |                                           |                                        |       |
|------------------------------------|--|------------------------------------------------|-------------------------------------------|----------------------------------------|-------|
| REV:                               |  | TITLE:                                         | .100 POLARIZING<br>BREAKAWAY HEADER ASSY. | SHEET No.                              | - 6 - |
| DOCUMENT NUMBER:<br>SD- 42226 -001 |  | CREATED / REVISED BY:<br>S. LINEHAN 03/04/2004 | CHECKED BY:<br>K.SAMIEC 03/04/2003        | APPROVED BY:<br>Y. MARGULIS 03/04/2004 |       |

TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC

|                                                                 |                    |                                                                 |      |                                               |                                                   |
|-----------------------------------------------------------------|--------------------|-----------------------------------------------------------------|------|-----------------------------------------------|---------------------------------------------------|
| A-42226-0422/0456                                               |                    |                                                                 |      |                                               |                                                   |
| HEADER NUMBER:                                                  |                    | 41410                                                           |      |                                               |                                                   |
| PIN NUMBER:                                                     |                    | 42663-CFA154                                                    |      |                                               |                                                   |
| PIN LENGTH: L                                                   |                    | .685/17.40                                                      |      |                                               |                                                   |
| MATING LENGTH: M                                                |                    | .295/7.49                                                       |      |                                               |                                                   |
| GOLD POINT: G                                                   |                    | N/A                                                             |      |                                               |                                                   |
| PC TAIL LENGTH: P                                               |                    | .135/3.43                                                       |      |                                               |                                                   |
| TIN: T                                                          |                    | OVERALL                                                         |      |                                               |                                                   |
| DIMENSION Y                                                     |                    | .022/0.56                                                       |      |                                               |                                                   |
| CKTS:                                                           |                    | 2-36                                                            |      |                                               |                                                   |
| KINKS:                                                          |                    | NO                                                              |      |                                               |                                                   |
| REMOVED BACKWALLS:                                              |                    | NO                                                              |      |                                               |                                                   |
| VOIDED CKTS:                                                    |                    | NONE                                                            |      |                                               |                                                   |
| PACKAGING:                                                      |                    | BULK 40873-0056                                                 |      |                                               |                                                   |
| CKTS                                                            | MATERIAL<br>NUMBER | ENG<br>NUMBER                                                   | CKTS | MATERIAL<br>NUMBER                            | ENG<br>NUMBER                                     |
| 02                                                              | 42226-0422         | A-42226-0422                                                    | 20   | 42226-0440                                    | A-42226-0440                                      |
| 03                                                              | 42226-0423         | A-42226-0423                                                    | 21   | 42226-0441                                    | A-42226-0441                                      |
| 04                                                              | 42226-0424         | A-42226-0424                                                    | 22   | 42226-0442                                    | A-42226-0442                                      |
| 05                                                              | 42226-0425         | A-42226-0425                                                    | 23   | 42226-0443                                    | A-42226-0443                                      |
| 06                                                              | 42226-0426         | A-42226-0426                                                    | 24   | 42226-0444                                    | A-42226-0444                                      |
| 07                                                              | 42226-0427         | A-42226-0427                                                    | 25   | 42226-0445                                    | A-42226-0445                                      |
| 08                                                              | 42226-0428         | A-42226-0428                                                    | 26   | 42226-0446                                    | A-42226-0446                                      |
| 09                                                              | 42226-0429         | A-42226-0429                                                    | 27   | 42226-0447                                    | A-42226-0447                                      |
| 10                                                              | 42226-0430         | A-42226-0430                                                    | 28   | 42226-0448                                    | A-42226-0448                                      |
| 11                                                              | 42226-0431         | A-42226-0431                                                    | 29   | 42226-0449                                    | A-42226-0449                                      |
| 12                                                              | 42226-0432         | A-42226-0432                                                    | 30   | 42226-0450                                    | A-42226-0450                                      |
| 13                                                              | 42226-0433         | A-42226-0433                                                    | 31   | 42226-0451                                    | A-42226-0451                                      |
| 14                                                              | 42226-0434         | A-42226-0434                                                    | 32   | 42226-0452                                    | A-42226-0452                                      |
| 15                                                              | 42226-0435         | A-42226-0435                                                    | 33   | 42226-0453                                    | A-42226-0453                                      |
| 16                                                              | 42226-0436         | A-42226-0436                                                    | 34   | 42226-0454                                    | A-42226-0454                                      |
| 17                                                              | 42226-0437         | A-42226-0437                                                    | 35   | 42226-0455                                    | A-42226-0455                                      |
| 18                                                              | 42226-0438         | A-42226-0438                                                    | 36   | 42226-0456                                    | A-42226-0456                                      |
| 19                                                              | 42226-0439         | A-42226-0439                                                    |      |                                               |                                                   |
|                                                                 |                    |                                                                 |      |                                               |                                                   |
| REV:<br><br><b>J</b>                                            |                    | TITLE:<br><br><b>.100 POLARIZING<br/>BREAKAWAY HEADER ASSY.</b> |      |                                               | SHEET No.<br><br><b>- 7 -</b>                     |
| DOCUMENT NUMBER:<br><br><b>SD- 42226 -001</b>                   |                    | CREATED / REVISED BY:<br><br><b>S. LINEHAN 03/04/2004</b>       |      | CHECKED BY:<br><br><b>K.SAMIEC 03/04/2003</b> | APPROVED BY:<br><br><b>Y. MARGULIS 03/04/2004</b> |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC</small> |                    |                                                                 |      |                                               |                                                   |