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# PRODUCT NUMBER

XXXXX-YYY HTLF

LEAD FREE OPTION  
SEE NOTE 1,11

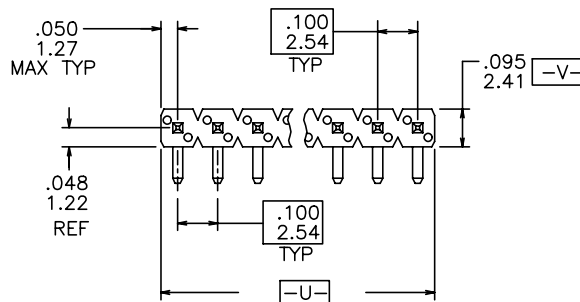
TUBE PACKAGING OPTION  
SEE NOTE 1

HIGH TEMPERATURE PLASTIC  
SEE NOTE 1

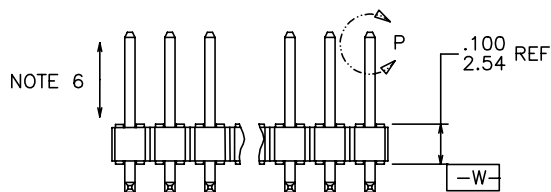
NO OF  
POSITIONS  
SEE NOTE 1

PIN PLATING  
SEE SHEET 2

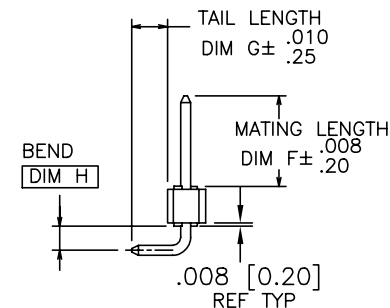
BASE PART NO.



TOP VIEW



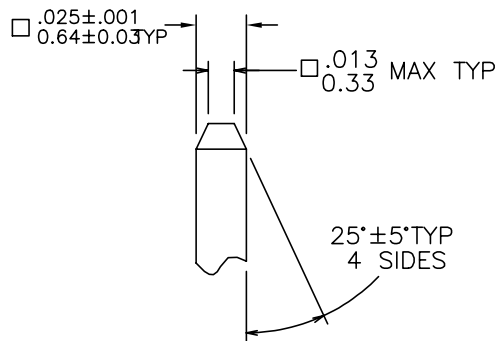
SIDE VIEW



END VIEW

Ø .020/0.51 (M) U (M) V (S) W

NOTE 4



DETAIL P  
TYP BOTH ENDS

| rev | ecn no      | dr  | date       |
|-----|-------------|-----|------------|
| AK  | ELX-N-16105 | ZK  | 2013-10-22 |
| AL  | ELX-N-17149 | ZK  | 2014-03-07 |
| CU  | M05-0072    | MHT | 5/03/05    |
| CV  | M06-0435    | MHT | 10/31/06   |
| AH  | M08-0291    | MHT | 10/06/08   |
| AJ  | N11-0118    | J.Z | 2011-04-11 |

|                                                                                       |           |          |                                                      |  |                                   |          |                                                                                                     |                    |                                                                                                  |               |  |
|---------------------------------------------------------------------------------------|-----------|----------|------------------------------------------------------|--|-----------------------------------|----------|-----------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------|---------------|--|
| www.fciconnect.com                                                                    |           |          | surface 6.4<br>ISO 1302 ✓                            |  | tolerance std<br>ISO 406 ISO 1101 |          | projection<br> |                    | INCH/MM<br> |               |  |
|                                                                                       |           |          | TOLERANCES UNLESS                                    |  | OTHERWISE SPECIFIED               |          |                                                                                                     |                    |                                                                                                  |               |  |
| Dr                                                                                    | D.WHITING | 04/07/93 | ANGULAR<br><br>LINEAR                                |  | 0.X ±0.3                          |          | size<br><br>A4                                                                                      | Scale<br><br>1.000 |                                                                                                  |               |  |
| Eng                                                                                   | T.HANNA   | 04/07/93 |                                                      |  | 0.XX ±0.15                        |          |                                                                                                     |                    |                                                                                                  |               |  |
| Chr                                                                                   | T.HANNA   | 04/07/93 | 0° ±2°                                               |  | 0.XXX ±0.05                       |          | ECN                                                                                                 |                    |                                                                                                  |               |  |
| Appr                                                                                  | T.HANNA   | 04/07/93 | Product family BERGSTIK                              |  |                                   |          | Spec ref                                                                                            |                    |                                                                                                  |               |  |
|  |           |          | title<br>BERGSTIK® II HEADER<br>.100 SR R/A SELF-RET |  |                                   |          | dwg no<br><br>69191                                                                                 |                    |                                                                                                  | Rev<br><br>AL |  |
| catalog no                                                                            |           |          |                                                      |  |                                   | CUSTOMER |                                                                                                     |                    | sheet 1 of 4                                                                                     |               |  |

## PIN PLATING CODES:

|             |                                                           |
|-------------|-----------------------------------------------------------|
| XXXX-1YY    | 30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-2YY    | 15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-3YY    | 50u"/1.27u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-4YY    | 100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 1,13) |
| XXXX-4YYHLF |                                                           |
| XXXX-5YY    | 15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-6YY    | 30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-7YY    | 30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-8YY    | 15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-9YY    | 15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |
| XXXX-0YY    | 30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni       |

## NOTES

## ①. PART NUMBER OPTIONS:

PIN PLATING CODES (SEE ABOVE)

## HIGH TEMP. MATERIAL:

FOR HIGH-TEMPERATURE APPLICATIONS, SPECIFY AN "H" AT THE END OF THE PART NUMBER, AND PCT WILL BE SUPPLIED.

## NUMBER OF POSITION:

ANY NUMBER OF POSITIONS FROM 2 THRU 36.

## PACKAGING:

PACKAGED IN POLY BAGS.

EIGHT DIGIT PART NUMBERS FOLLOWED BY A "T" ARE PACKAGED IN TUBES. SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

## LEAD FREE:

ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION, NOT AVAILABLE FOR -5YY, -5YYH, -6YY &amp; -6YYH.

## ②. BODY MATERIAL:

MANUFACTURER'S OPTION OF NYLON OR PCT, GLASS FIBER REINFORCED, FLAME RETARDANT PER UL-94V-0.

COLOR: BLACK, OR MINERAL FILLED LCP, COLOR BLACK FLAME RETARDANT PER UL-94V-0

PART NUMBERS WITH "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

PART NUMBERS WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR WAVE SOLDER PROCESS.

③. PIN MATERIAL: PHOS-BRONZE.

④. MEASURED WITH PART IN RESTRAINED CONDITION.

5. TWO SIDES OF PIN TIPS NOT PLATED, TYPICAL BOTH ENDS.

⑥. 2LBS/0.9KG MIN PIN RETENTION IN EITHER DIRECTION.

⑦. ±.010/0.25 ON DIM "F" APPLIES TO THIS PART ONLY.

8. 5LB/2.3KG MAX INSERTION FORCE AND .25LB/.1KG MIN RETENTION FORCE PER RETENTIVE PIN USING .062/1.57 THICK CIRCUIT BOARDS AND RECOMMENDED HOLE PATTERN.

⑧. DETAIL N DIMENSIONS APPLY TO 2 POSITION PARTS ONLY

⑨. SECTION R-R DIMENSIONS ONLY APPLY TO RETENTION. PIN POSITIONS FOR 3 POSITION PARTS AND LARGER. RETENTION PIN POSITIONS LOCATED AT MANUFACTURES OPTION.

⑩. SECTION S-S DIMENSIONS APPLY TO DUAL RETENTION PIN POSITIONS ONLY. SEE PRODUCT PART NUMBER FOR SINGLE OR DUAL SIDE RETENTION. LOCATED AT MANUFACTURER'S OPTION.

⑪. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.

⑫. PLATING OPTIONS: PERFORMANCE PLATING WILL BE EITHER GOLD OR GXT ON POST OR TAIL, OPTIONALLY (.78~2.95u"/2~7.5u) TIN ON TAIL.

⑬. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."

.100±.003 [2.54±.08]  
TYP. NON-ACCUMULATIVE

Ø.040±.003 [1.02±.08]  
TYP.

## RECOMMENDED HOLE PATTERN

|                                                                                       |           |          |                                                      |     |                                   |       |                                                                                                     |            |                                                                                                  |              |  |
|---------------------------------------------------------------------------------------|-----------|----------|------------------------------------------------------|-----|-----------------------------------|-------|-----------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|--------------|--|
| www.fciconnect.com                                                                    |           |          | surface<br>ISO 1302 ✓                                |     | tolerance std<br>ISO 406 ISO 1101 |       | projection<br> |            | INCH/MM<br> |              |  |
|                                                                                       |           |          | TOLERANCES UNLESS OTHERWISE SPECIFIED                |     |                                   |       |                                                                                                     |            |                                                                                                  |              |  |
| Dr                                                                                    | D.WHITING | 04/07/93 | ANGULAR                                              |     | LINEAR                            | 0.X   | ±0.3                                                                                                | size<br>A4 | Scale<br>1.000                                                                                   |              |  |
| Eng                                                                                   | T.HANNA   | 04/07/93 |                                                      |     |                                   | 0.XX  | ±0.15                                                                                               |            |                                                                                                  |              |  |
| Chr                                                                                   | T.HANNA   | 04/07/93 | 0°                                                   | ±2° |                                   | 0.XXX | ±0.05                                                                                               | ECN        |                                                                                                  |              |  |
| Appr                                                                                  | T.HANNA   | 04/07/93 | Product family BERGSTIK                              |     |                                   |       |                                                                                                     | Spec ref   |                                                                                                  |              |  |
|  |           |          | title<br>BERGSTIK® II HEADER<br>.100 SR R/A SELF-RET |     |                                   |       | dwg no<br>69191                                                                                     |            |                                                                                                  | Rev.<br>AL   |  |
|                                                                                       |           |          | catalog no                                           |     |                                   |       |                                                                                                     |            |                                                                                                  |              |  |
|                                                                                       |           |          |                                                      |     |                                   |       | CUSTOMER                                                                                            |            |                                                                                                  | sheet 2 of 4 |  |

A

B

C

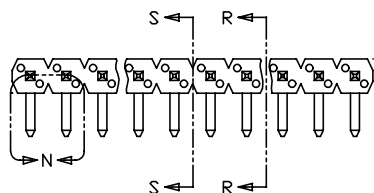
D

A

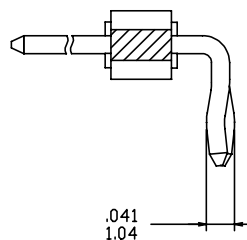
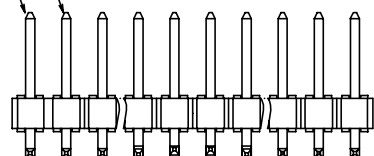
B

C

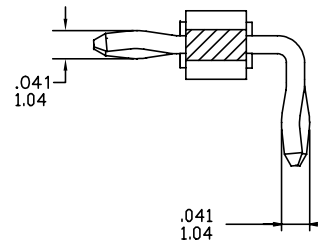
D



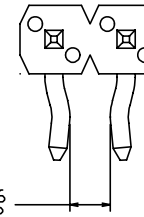
PDS. 2 ETC  
PDS. 1



SECTION R-R  
NOTE 9



SECTION S-S  
NOTE 10



DETAIL N  
NOTE 8

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|                                                                                       |            |          |                       |        |                                             |          |                                                                                                     |                                                                                                  |
|---------------------------------------------------------------------------------------|------------|----------|-----------------------|--------|---------------------------------------------|----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| www.fciconnect.com                                                                    |            |          | surface<br>ISO 1302 ✓ |        | tolerance std<br>ISO 406 ISO 1101           |          | projection<br> | INCH/MM<br> |
|                                                                                       |            |          | TOLERANCES UNLESS     |        | OTHERWISE SPECIFIED                         |          |                                                                                                     |                                                                                                  |
| Dr                                                                                    | D.WHITING  | 04/07/93 | ANGULAR<br><br>0° ±2° | LINEAR | 0.X                                         | ±0.3     | size<br>A4                                                                                          | Scale<br>1.000                                                                                   |
| Eng                                                                                   | T.HANNA    | 04/07/93 |                       |        | 0.XX                                        | ±0.15    |                                                                                                     |                                                                                                  |
| Chr                                                                                   | T.HANNA    | 04/07/93 |                       |        | 0.XXX                                       | ±0.05    | ECN                                                                                                 |                                                                                                  |
| Appr                                                                                  | T.HANNA    | 04/07/93 | Product family        |        |                                             | BERGSTIK |                                                                                                     | Spec ref                                                                                         |
|  | title      |          |                       |        | BERGSTIK® II HEADER<br>.100 SR R/A SELF-RET |          | dwg no<br>69191                                                                                     | Rev                                                                                              |
|                                                                                       | catalog no |          |                       |        |                                             |          |                                                                                                     | AL                                                                                               |
|                                                                                       |            |          |                       |        | CUSTOMER                                    |          | sheet 3 of 4                                                                                        |                                                                                                  |

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| PRODUCT NUMBER        | MATING LENGTH         |                  | TAIL LENGTH      |                 | BEND DIM         |                 | RETENTION                      | PACKAGING                  | NOTES        | LF<br>OPTION |
|-----------------------|-----------------------|------------------|------------------|-----------------|------------------|-----------------|--------------------------------|----------------------------|--------------|--------------|
|                       | DIM F                 | DIM F            | DIM G            | DIM G           | DIM H            | DIM H           |                                |                            |              |              |
|                       | ENGLISH               | METRIC           | ENGLISH          | METRIC          | ENGLISH          | METRIC          | LOCATION                       |                            |              |              |
| 69191-XXY             | 0.230                 | 5.84             | 0.120            | 3.05            | 0.060            | 1.52            | G TAIL                         | POLY BAGS/TUBES            | -            | NOTE 1,11    |
| <del>72375-XXXH</del> | <del>0.240</del>      | <del>6.10</del>  | <del>0.120</del> | <del>3.05</del> | <del>0.060</del> | <del>1.52</del> | <del>G TAIL</del>              | <del>POLY BAGS</del>       | <del>-</del> | OB           |
| 78554-XXY             | 0.318                 | 8.08             | 0.120            | 3.05            | 0.060            | 1.52            | G TAIL                         | POLY BAGS/TUBES            | -            |              |
| <del>78940-XXY</del>  | <del>0.120</del>      | <del>3.05</del>  | <del>0.120</del> | <del>3.05</del> | <del>0.060</del> | <del>1.52</del> | <del>F MATE &amp; G TAIL</del> | <del>POLY BAGS</del>       | <del>7</del> | OB           |
| <del>78952-XXY</del>  | <del>0.120</del>      | <del>3.05</del>  | <del>0.318</del> | <del>8.08</del> | <del>0.135</del> | <del>3.43</del> | <del>F MATE</del>              | <del>POLY BAGS</del>       | <del>7</del> | OB           |
| 79253-XXY             | U N A V A I L A B L E |                  |                  |                 |                  |                 |                                |                            |              |              |
| <del>84825-XXXH</del> | <del>0.354</del>      | <del>9.00</del>  | <del>0.102</del> | <del>2.60</del> | <del>0.060</del> | <del>1.52</del> | <del>G TAIL</del>              | <del>POLY BAGS</del>       | <del>-</del> | OB           |
| <del>84851-XXXH</del> | <del>0.140</del>      | <del>3.56</del>  | <del>0.290</del> | <del>7.37</del> | <del>0.153</del> | <del>3.89</del> | <del>G TAIL</del>              | <del>POLY BAGS</del>       | <del>-</del> | OB           |
| 86641-XXY             | 0.120                 | 3.05             | 0.120            | 3.05            | 0.060            | 1.52            | G TAIL                         | POLY BAGS                  | -            |              |
| 87018-XXY             | U N A V A I L A B L E |                  |                  |                 |                  |                 |                                |                            |              |              |
| 87844-XXY             | U N A V A I L A B L E |                  |                  |                 |                  |                 |                                |                            |              |              |
| 87965-XXY             | U N A V A I L A B L E |                  |                  |                 |                  |                 |                                |                            |              |              |
| <del>88869-XXY</del>  | <del>0.120</del>      | <del>3.05</del>  | <del>0.230</del> | <del>5.84</del> | <del>0.135</del> | <del>3.43</del> | <del>F MATE</del>              | <del>POLY BAGS</del>       | <del>7</del> | OB           |
| <del>90304-XXY</del>  | <del>0.165</del>      | <del>4.19</del>  | <del>0.120</del> | <del>3.05</del> | <del>0.060</del> | <del>1.52</del> | <del>G TAIL</del>              | <del>POLY BAGS</del>       | <del>-</del> | OB           |
| 90604-XXY             | U N A V A I L A B L E |                  |                  |                 |                  |                 |                                |                            |              |              |
| 90609-XXY             | U N A V A I L A B L E |                  |                  |                 |                  |                 |                                |                            |              | NOTE 1,11    |
| <del>90638-XXY</del>  | <del>0.120</del>      | <del>3.05</del>  | <del>0.262</del> | <del>6.65</del> | <del>0.060</del> | <del>1.52</del> | <del>F MATE</del>              | <del>POLY BAGS/TUBES</del> | <del>7</del> | OB           |
| <del>90640-XXY</del>  | <del>0.120</del>      | <del>3.05</del>  | <del>0.262</del> | <del>6.65</del> | <del>0.127</del> | <del>3.23</del> | <del>F MATE</del>              | <del>POLY BAGS</del>       | <del>7</del> | OB           |
| <del>94669-XXXH</del> | <del>0.230</del>      | <del>5.84</del>  | <del>0.085</del> | <del>2.16</del> | <del>0.060</del> | <del>1.52</del> | <del>G TAIL</del>              | <del>POLY BAGS</del>       | <del>-</del> | OB           |
| <del>94670-XXXH</del> | <del>0.400</del>      | <del>10.16</del> | <del>0.085</del> | <del>2.16</del> | <del>0.060</del> | <del>1.52</del> | <del>G TAIL</del>              | <del>POLY BAGS</del>       | <del>-</del> | OB           |
| 10100500-XXXH         | 0.177                 | 4.50             | 0.120            | 3.05            | 0.043            | 1.10            | G TAIL                         | POLY BAGS                  | -            |              |

REV F - 2006-04-17

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PDS: Rev :AL

STATUS:Released

Printed: Mar 10, 2014



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D

|                                                                                       |            |          |                       |        |                                             |       |                                                                                                     |     |                   |  |              |     |
|---------------------------------------------------------------------------------------|------------|----------|-----------------------|--------|---------------------------------------------|-------|-----------------------------------------------------------------------------------------------------|-----|-------------------|--|--------------|-----|
| www.fciconnect.com                                                                    |            |          | surface<br>ISO 1302 ✓ |        | tolerance std<br>ISO 406 ISO 1101           |       | projection<br> |     | INCH/MM<br>←————→ |  |              |     |
|                                                                                       |            |          | TOLERANCES UNLESS     |        | OTHERWISE SPECIFIED                         |       |                                                                                                     |     |                   |  |              |     |
| Dr                                                                                    | D.WHITING  | 04/07/93 | ANGULAR               | LINEAR | 0.X                                         | ±0.3  | size                                                                                                | A4  | Scale<br>1.000    |  |              |     |
| Eng                                                                                   | T.HANNA    | 04/07/93 |                       |        | 0.XX                                        | ±0.15 |                                                                                                     |     |                   |  |              |     |
| Chr                                                                                   | T.HANNA    | 04/07/93 |                       |        | 0' ±2'                                      | 0.XXX | ±0.05                                                                                               | ECN |                   |  |              |     |
| Appr                                                                                  | T.HANNA    | 04/07/93 | Product family        |        | BERGSTIK                                    |       | Spec ref                                                                                            |     |                   |  |              |     |
|  | title      |          |                       |        | BERGSTIK® II HEADER<br>.100 SR R/A SELF-RET |       |                                                                                                     |     | dwg no            |  | 69191        | Rev |
|                                                                                       | catalog no |          |                       |        |                                             |       |                                                                                                     |     |                   |  |              | AL  |
|                                                                                       |            |          |                       |        |                                             |       |                                                                                                     |     | CUSTOMER          |  | sheet 4 of 4 |     |