

PRODUCT NUMBER

XXXXX-YYYH TLF

LEAD FREE OPTION  
SEE NOTE 1,11TUBE PACKAGING OPTION  
SEE NOTE 1HIGH TEMPERATURE PLASTIC  
SEE NOTE 1NO. OF POSITIONS  
SEE NOTE 1PIN PLATING  
SEE SHEET 2

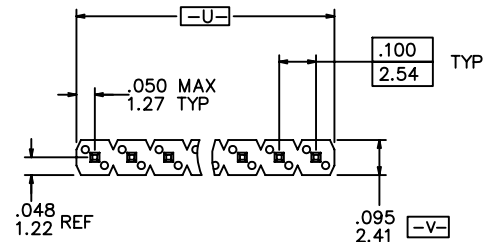
BASE PART NO.

PRODUCT NUMBER

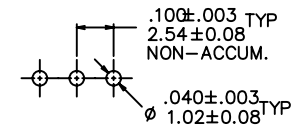
69190-XXXXX H ALF

LEAD FREE OPTION  
SEE NOTE 1,11PACKAGING OPTION  
SEE NOTE 1HIGH TEMPERATURE PLASTIC  
SEE NOTE 1INDICATE DIFFERENT MATING LENGTH  
AND TAIL LENGTHNO. OF POSITIONS  
SEE NOTE 1PIN PLATING  
SEE SHEET 2

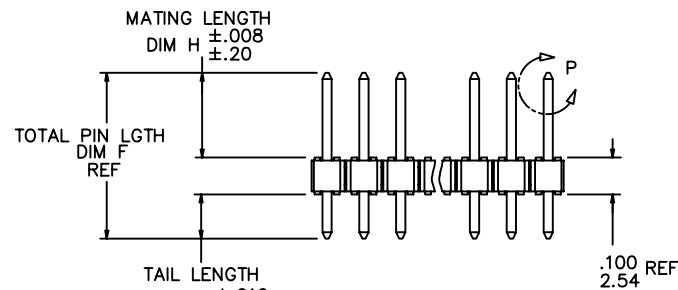
BASE PART NO.



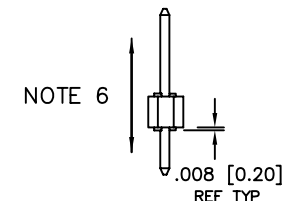
TOP VIEW



RECOMMENDED HOLE PATTERN



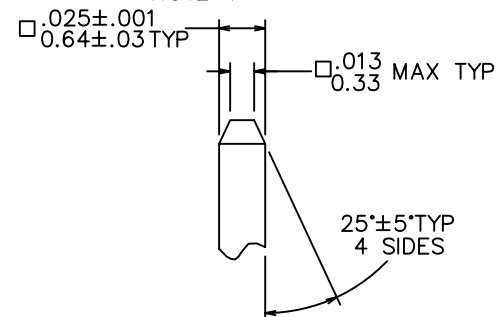
SIDE VIEW



END VIEW

⊕ ∅ .020/.51 (M) U (M) V (S)

NOTE 4

DETAIL P  
TYP BOTH ENDS

|                            |             |     |            |                       |                                  |                       |                                                       |  |  |
|----------------------------|-------------|-----|------------|-----------------------|----------------------------------|-----------------------|-------------------------------------------------------|--|--|
| mat'l. code<br>NOTES 2 & 3 |             |     |            | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM | product family<br>BERGSTIK                            |  |  |
| ltr                        | ecn no      | dr  | date       | angles                | linear                           | scale 1:1             | title<br>BERGSTIK® II HEADER<br>.100/2.54 SR SELF-RET |  |  |
| AM                         | ELX-N-13674 | DCS | 2012-12-12 |                       |                                  |                       |                                                       |  |  |
| AN                         | ELX-N-16105 | ZK  | 2013-10-22 |                       |                                  |                       |                                                       |  |  |
| AP                         | ELX-N-19414 | HJ  | 2014-11-13 | 0°±2°                 |                                  |                       |                                                       |  |  |
|                            |             |     |            | dr                    | D. WHITING                       | 4/19/93               |                                                       |  |  |
| AJ                         | M06-0346    | MHT | 9/04/06    | engr                  | T.HANNA                          | 4/19/93               |                                                       |  |  |
| AK                         | M08-0291    | MHT | 10/06/08   | chr                   | T. BREWBAKER                     | 4/19/93               |                                                       |  |  |
| AL                         | N11-0118    | J.Z | 2011-04-11 | appd                  | T.HANNA                          | 4/19/93               |                                                       |  |  |
| sheet                      | revision    | AP  |            |                       |                                  |                       | dwg no 69190 sheet 1 of 4 size A3                     |  |  |
| index                      | sheet       | 1-4 |            |                       |                                  |                       | type Product Customer Drawing                         |  |  |

## 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 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.

EIGHT DIGIT PART NUMBERS FOLLOWED BY A "A" ARE PACKAGED IN TAPE AND REEL WITH PICKUP CAPS.

## 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 RETARDENT PER UL-94V-0.

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

PART NUMBERS WITH "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260? 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? 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 TOL APPLIES TO ALL 'G' TAILS EXCEPT INDICATED PARTS ON TABLE WHERE +.010/0.25 -.000/0.00 APPLIES.

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 MANUFACTURER'S OPTION.

10. 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.

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 (78~295u")/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."

|             |                |    |      |                       |                                  |                                                                                                     |                                                      |  |  |
|-------------|----------------|----|------|-----------------------|----------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------|--|--|
| mat'l. code |                |    |      | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101 | projection<br> | product family<br>BERGSTIK                           |  |  |
| ltr         | ecn no         | dr | date | angles                | linear                           | INCH/MM<br>scale 1:1                                                                                | title<br>BERGSTIK II HEADER<br>.100/2.54 SR SELF-RET |  |  |
| AP          |                |    |      |                       |                                  |                                                                                                     |                                                      |  |  |
|             |                |    |      | 0±2°                  |                                  |                                                                                                     |                                                      |  |  |
|             |                |    |      | dr                    | D. WHITING                       | 4/19/93                                                                                             | FCI                                                  |  |  |
|             |                |    |      | enr                   | T.HANNA                          | 4/19/93                                                                                             |                                                      |  |  |
|             |                |    |      | chr                   | T. BREWBAKER                     | 4/19/93                                                                                             |                                                      |  |  |
|             |                |    |      | app                   | T.HANNA                          | 4/19/93                                                                                             |                                                      |  |  |
| sheet index | revision sheet |    |      |                       |                                  |                                                                                                     | dwg no 69190                                         |  |  |
|             |                |    |      |                       |                                  |                                                                                                     | sheet2 of 4 size A3                                  |  |  |
|             |                |    |      |                       |                                  |                                                                                                     | type Product Customer Drawing                        |  |  |

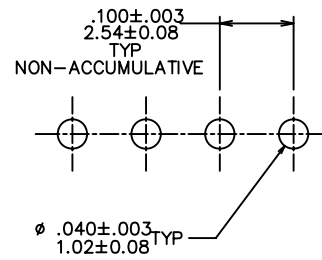
1

2 3

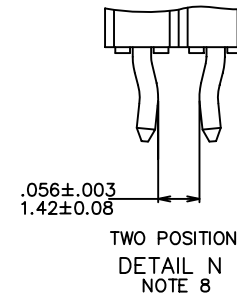
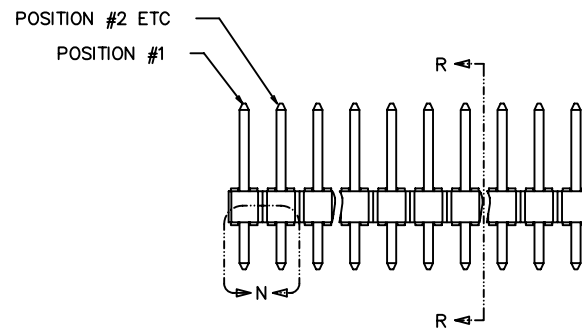
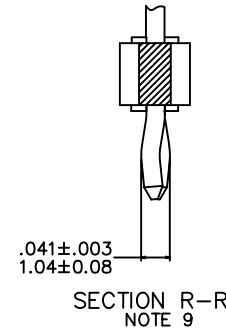
4

5

6



RECOMMENDED HOLE PATTERN



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D

form: A3

1

2

3

4

5

6

PDS: Rev :AP

STATUS:Released Printed: Nov 13, 2014

|             |                |    |      |                                       |                                  |                       |                                             |              |      |
|-------------|----------------|----|------|---------------------------------------|----------------------------------|-----------------------|---------------------------------------------|--------------|------|
| mat'l. code |                |    |      | surface<br>ISO 1302 ✓                 | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM | product family<br>BERGSTIK                  |              |      |
| ltr         | ecn no         | dr | date | tolerances unless otherwise specified |                                  |                       | title                                       |              |      |
| AP          |                |    |      | angles                                | linear                           | scale 1:1             | BERGSTIK II HEADER<br>.100/2.54 SR SELF-RET |              |      |
|             |                |    |      | 0°±2°                                 |                                  |                       |                                             |              |      |
|             |                |    |      | dr                                    | D. WHITING                       |                       |                                             |              |      |
|             |                |    |      | enr                                   | T.HANNA                          | 4/19/93               | <div>FCI</div>                              |              |      |
|             |                |    |      | chr                                   | T. BREWBAKER                     | 4/19/93               |                                             |              |      |
|             |                |    |      | app                                   | T.HANNA                          | 4/19/93               |                                             |              |      |
| sheet index | revision sheet |    |      |                                       |                                  |                       | dwg no                                      | sheet 3 of 4 | size |
|             |                |    |      |                                       |                                  |                       | 69190                                       |              | A3   |
|             |                |    |      |                                       |                                  |                       | type Product Customer Drawing               |              |      |



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| PRODUCT NUMBER        | TOTAL PIN LENGTH      |                  | TAIL LENGTH      |                 | MATING LENGTH    |                  | PACKAGING                  | NOTE         | LF<br>OPTION         |
|-----------------------|-----------------------|------------------|------------------|-----------------|------------------|------------------|----------------------------|--------------|----------------------|
|                       | DIM F                 | DIM F            | DIM G            | DIM G           | DIM H            | DIM H            |                            |              |                      |
|                       | ENGLISH               | METRIC           | ENGLISH          | METRIC          | ENGLISH          | METRIC           |                            |              |                      |
| 69190-YYY             | 0.450                 | 11.43            | 0.120            | 3.05            | 0.230            | 5.84             | POLY BAGS/TUBES            | -            | NOTE 1,11<br>OB<br>↓ |
| <del>72348-YYYH</del> | <del>0.515</del>      | <del>13.08</del> | <del>0.120</del> | <del>3.05</del> | <del>0.295</del> | <del>7.49</del>  | <del>POLY BAGS</del>       | <del>-</del> |                      |
| 78229-YYY             | 0.538                 | 13.67            | 0.120            | 3.05            | 0.318            | 8.08             | POLY BAGS/TUBES            | -            |                      |
| 78250-YYY             | U N A V A I L A B L E |                  |                  |                 |                  |                  |                            | -            |                      |
| <del>78538-YYY</del>  | <del>0.620</del>      | <del>15.75</del> | <del>0.120</del> | <del>3.05</del> | <del>0.400</del> | <del>10.16</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>78594-YYY</del>  | <del>0.760</del>      | <del>19.30</del> | <del>0.120</del> | <del>3.05</del> | <del>0.540</del> | <del>13.72</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>79429-YYY</del>  | <del>0.695</del>      | <del>17.65</del> | <del>0.120</del> | <del>3.05</del> | <del>0.475</del> | <del>12.07</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>79978-YYY</del>  | <del>0.450</del>      | <del>11.43</del> | <del>0.120</del> | <del>3.05</del> | <del>0.230</del> | <del>5.84</del>  | <del>POLY BAGS/TUBES</del> | <del>7</del> |                      |
| <del>86505-YYY</del>  | <del>0.440</del>      | <del>11.18</del> | <del>0.120</del> | <del>3.05</del> | <del>0.220</del> | <del>5.59</del>  | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>87036-YYY</del>  | <del>0.830</del>      | <del>21.08</del> | <del>0.120</del> | <del>3.05</del> | <del>0.610</del> | <del>15.49</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>87068-YYY</del>  | <del>0.530</del>      | <del>13.46</del> | <del>0.115</del> | <del>2.92</del> | <del>0.315</del> | <del>8.00</del>  | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>87280-YYY</del>  | <del>1.000</del>      | <del>25.40</del> | <del>0.120</del> | <del>3.05</del> | <del>0.780</del> | <del>19.81</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| 87452-YYY             | 0.840                 | 21.34            | 0.120            | 3.05            | 0.620            | 15.75            | POLY BAGS                  | -            |                      |
| <del>87453-YYY</del>  | <del>0.990</del>      | <del>25.15</del> | <del>0.120</del> | <del>3.05</del> | <del>0.770</del> | <del>19.56</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>87918-YYY</del>  | <del>0.730</del>      | <del>18.54</del> | <del>0.120</del> | <del>3.05</del> | <del>0.510</del> | <del>12.95</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>90603-YYY</del>  | <del>0.430</del>      | <del>10.92</del> | <del>0.100</del> | <del>2.54</del> | <del>0.230</del> | <del>5.84</del>  | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>90610-YYY</del>  | <del>0.927</del>      | <del>23.55</del> | <del>0.100</del> | <del>2.54</del> | <del>0.727</del> | <del>18.47</del> | <del>POLY BAGS</del>       | <del>-</del> |                      |
| <del>94549-YYYH</del> | <del>0.415</del>      | <del>10.54</del> | <del>0.085</del> | <del>2.16</del> | <del>0.230</del> | <del>5.84</del>  | <del>POLY BAGS</del>       | <del>-</del> |                      |
| 69190-YYY001HLF       | 0.425                 | 10.80            | 0.095            | 2.41            | 0.230            | 5.84             | POLY BAGS                  | -            |                      |
| 69190-YYY002HLF       | 0.378                 | 9.59             | 0.120            | 3.05            | 0.157            | 4.00             | POLY BAGS/TUBES            | -            | NOTE 1,11            |

|             |                |    |      |                                       |                                  |                      |                                                      |  |  |
|-------------|----------------|----|------|---------------------------------------|----------------------------------|----------------------|------------------------------------------------------|--|--|
| mat'l. code |                |    |      | surface<br>ISO 1302 ✓                 | tolerance<br>ISO 406<br>ISO 1101 | projection<br>       | product family<br>BERGSTIK                           |  |  |
| ltr         | ecn no         | dr | date | tolerances unless otherwise specified |                                  | INCH/MM<br>scale 1:1 | title<br>BERGSTIK II HEADER<br>.100/2.54 SR SELF-RET |  |  |
| AP          |                |    |      | angles                                | linear                           |                      |                                                      |  |  |
|             |                |    |      | 0±2°                                  |                                  |                      |                                                      |  |  |
|             |                |    |      | dr                                    | D. WHITING                       | 4/19/93              | FCI                                                  |  |  |
|             |                |    |      | enr                                   | T.HANNA                          | 4/19/93              |                                                      |  |  |
|             |                |    |      | chr                                   | T. BREWBAKER                     | 4/19/93              |                                                      |  |  |
|             |                |    |      | app                                   | T.HANNA                          | 4/19/93              |                                                      |  |  |
| sheet index | revision sheet |    |      |                                       |                                  |                      | type Product Customer Drawing                        |  |  |