

PRODUCT NUMBER

5 4 1 0 1 - X X X - X X X X LF

PLATING  
S= 15μ" [0.38μm] GOLD ON CONTACT AREA (NOTE 16)  
100μ" [2.54μm] TIN ON TAIL.  
G= 30μ" [0.76μm] GOLD ON CONTACT AREA (NOTE 16)  
100μ" [2.54μm] TIN ON TAIL.  
T= 100-160μ" [2.54-4.04μm] TIN ON CONTACT AREA AND ON TAIL (SEE NOTE 11 & 15)

RETENTION  
R=RETENTIVE LEG  
NOTE 5 & 7

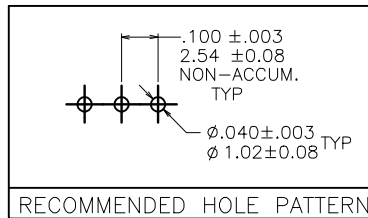
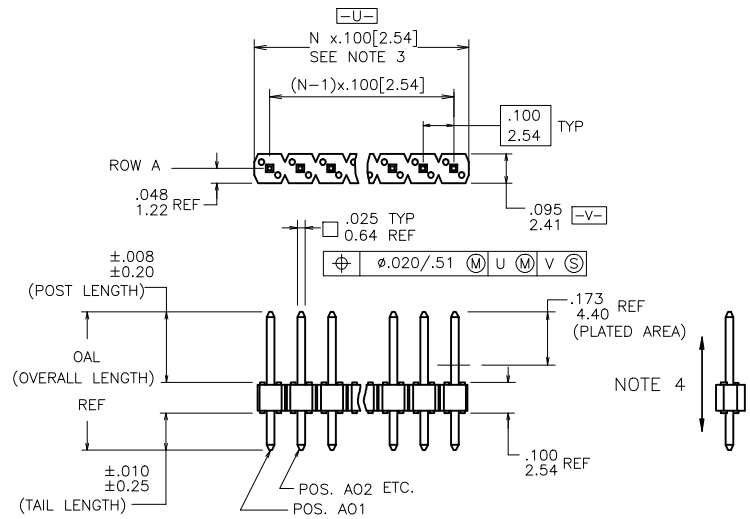
POLARIZATION  
NOTE 7 & 9

BERGSTIK  
POSITIONS PER ROW  
01 TO 36  
NOTE 10

BERGSTRIK  
POSITIONS PER REEL  
00=36,000  
PIN STYLES 5, 6, 8, 10, 30, 32 ONLY.

LEAD FREE  
NOTE 12 & 13

| PIN STYLE | POST       | TAIL       | OAL         |
|-----------|------------|------------|-------------|
| 05        | 0.230/5.84 | 0.095/2.41 | 0.425/10.80 |
| 06        | 0.230/5.84 | 0.110/2.79 | 0.440/11.18 |
| 08        | 0.230/5.84 | 0.120/3.05 | 0.450/11.43 |
| 10        | 0.230/5.84 | 0.150/3.81 | 0.480/12.19 |
| 12        | 0.230/5.84 | 0.300/7.62 | 0.630/16.00 |
| 30        | 0.318/8.08 | 0.120/3.05 | 0.538/13.67 |
| 32        | 0.318/8.08 | 0.150/3.81 | 0.568/14.43 |
| 34        | 0.318/8.08 | 0.212/5.38 | 0.630/16.00 |



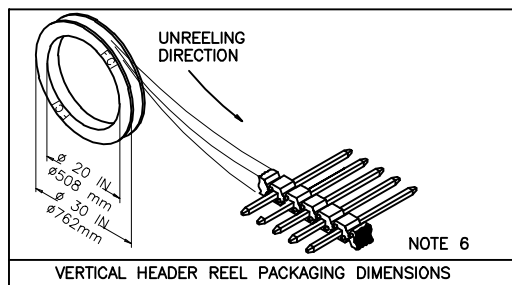
|                               |          |     |         |                       |                                  |                       |                                                      |
|-------------------------------|----------|-----|---------|-----------------------|----------------------------------|-----------------------|------------------------------------------------------|
| mat'l code<br>SEE NOTES 1 & 2 |          |     |         | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM | product family<br>BERGSTIK                           |
| lir                           | ecn no   | dr  | date    | angles                | linear                           | scale 1:1             | title<br>.100 UNSHROUDED HDR.<br>S/R VERT. THRU HOLE |
| N                             | M06-0346 | MHT | 9/04/06 |                       |                                  |                       |                                                      |
| P                             | M07-0247 | AGS | 5/28/07 |                       |                                  |                       |                                                      |
| R                             | M07-0337 | MHT | 7/23/07 |                       |                                  |                       |                                                      |
| S                             | M07-0361 | MHT | 8/14/07 |                       |                                  |                       |                                                      |
| T                             | M08-0237 | MHT | 8/25/08 |                       |                                  |                       |                                                      |
| U                             | M08-0279 | MHT | 9/30/08 |                       |                                  |                       |                                                      |
| V                             | M09-0090 | MHT | 6/19/09 |                       |                                  |                       |                                                      |
| sheet                         | revision | V   | V       |                       |                                  |                       |                                                      |
| index                         | sheet    | 1   | 2       |                       |                                  |                       |                                                      |

NOTES:

- ① HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-0, COLOR: BLACK  
OR  
MINERAL FILLED LCP FLAME RETARDENT  
PER UL-94V-0. COLOR: BLACK.
- ② PIN MATERIAL: PHOSPHOR-BRONZE
- ③ TO DETERMINE DIMENSIONS:  
N = NUMBER OF POSITIONS PER ROW.  
EXAMPLE: 10 POS., N x .100[2.54]=1.00[25.40].
- ④ 2LBS/0.9KG MIN. PIN RETENTION IN EITHER DIRECTION.
- ⑤ RETENTIVE LEG APPLICABLE TO TAIL LENGTH .120/3.05 ONLY. (4 PINS PER PART HAVE RETENTION)  
5LB/2.3KG MAX INSERTION FORCE AND .25LB./1KG MIN RETENTION FORCE PER RETENTIVE PIN  
USING .062/1.57 THICK CIRCUIT BOARD AND RECOMMENDED HOLE PATTERN. RETENTIVE LOCATION  
AT THE DISCRETION OF THE MANUFACTURER. IF FEATURE IS NOT APPLICABLE, REMOVE FROM PRODUCT  
NUMBER, 1x2 OR 1x3 PARTS NOT REFERENCED.
- ⑥ BERGSTIK PACKAGED IN POLY BAGS. BERGSTRIK PACKAGED PER REEL.
- ⑦ POLARIZATION AND RETENTION NOT APPLICABLE TO BERGSTRIK.
- ⑧ UNDERPLATING: 50μ"/1.27μm Ni.
- ⑨ FOR POLARIZATION SPECIFY POSITION NUMBER (i.e.. A03=ROW A POS. 3)  
TO OMIT PIN.  
IF FEATURE IS NOT APPLICABLE, REMOVE FROM PRODUCT  
NUMBER.
- ⑩ POSITIONS PER ROW 37 TO 50 CAN BE PRODUCED, BUT FLATNESS AND CURVATURE MAY NOT BE HELD  
AS CLOSE AS 36 POSITION.
- ⑪ PIN TIPS ON TIN PLATED PRODUCT MAY HAVE BARE METAL ON TWO SIDS, BOTH ENDS.
- ⑫ PART NUMBERS WITH "LF" AT THE END ARE LEAD FREE.
- ⑬ THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER  
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
14. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE  
FOR 20 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW  
OVEN. SEE APPLICATION NOTES/PROCEDURES IF THEY ARE AVAILABLE OR  
FOR 15 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.5mm  
MINIMUM THICK CIRCUIT BOARD.
- ⑮ "THIS PRODUCT HAS 100% PURE TIN PLATING IN THE INTERFACE AND  
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT  
ENVIRONMENTS."
- ⑯ PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

Cross Reference

| CORE RANGE     | EXTENDED RANGE |
|----------------|----------------|
| 77311-101-XXLF | 54101-G05XXLF  |
| 77311-801-XXLF | 54101-S05XXLF  |
| 77311-118-XXLF | 54101-G08XXLF  |
| 77311-818-XXLF | 54101-S08XXLF  |



|             |                 |         |          |                                       |                     |            |                          |
|-------------|-----------------|---------|----------|---------------------------------------|---------------------|------------|--------------------------|
| mat'l. code | SEE NOTES 1 & 2 | surface | ISO 1302 | tolerance                             | ISO 406             | projection | product family           |
| ltr         | ecn no          | dr      | date     | tolerances unless otherwise specified | ISO 1101            | INCH/MM    | BERGSTIK                 |
| v           |                 |         |          | angles                                | linear              | scale 1:1  | title                    |
|             |                 |         |          | 0°±2'                                 | XXX±.01/XX±0.3      |            | .100 UNSHROUDED HDR.     |
|             |                 |         |          |                                       | XXX±.006/XX±0.13    |            | S/R VERT. THRU HOLE      |
|             |                 |         |          |                                       | XXX±.0020/XXX±0.051 |            | dwg no                   |
|             |                 |         |          | dr                                    | D.INGRAM            | 05/10/99   | sheet 2 of 2 size        |
|             |                 |         |          | engr                                  | H.SUNDY             | 07/15/99   | A3                       |
|             |                 |         |          | chr                                   | H.SUNDY             | 07/15/99   | type                     |
|             |                 |         |          | appd                                  | H.SUNDY             | 07/15/99   | Product Customer Drawing |
| sheet       | revision        |         |          |                                       |                     |            |                          |
| index       | sheet           |         |          |                                       |                     |            |                          |