

PRODUCT NUMBER

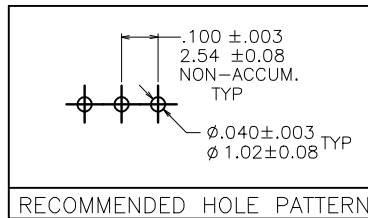
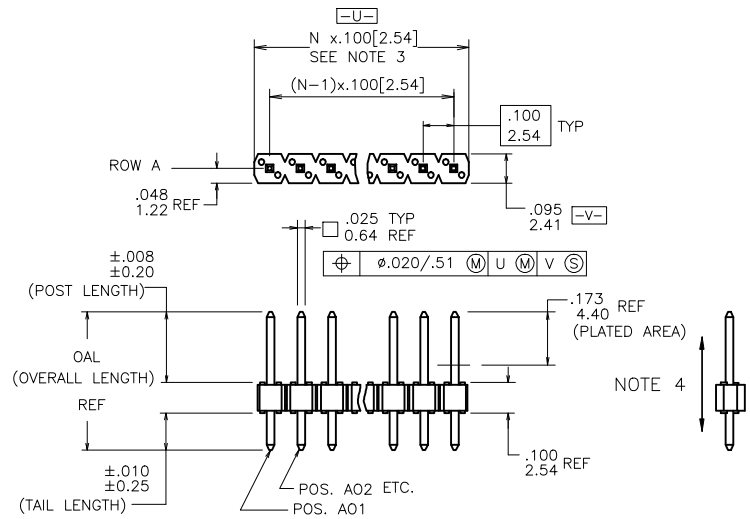
5 4 1 0 1 - X X X - X X X X LF

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)

LEAD FREE  
NOTE 12 & 13  
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.

| 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 |



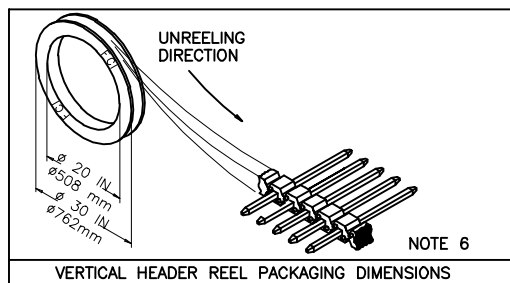
|                               |          |     |         |                       |                                  |                       |                                                      |
|-------------------------------|----------|-----|---------|-----------------------|----------------------------------|-----------------------|------------------------------------------------------|
| 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 |                       | .001±.01/.010±.03                |                       | dwg no<br>54101                                      |
| P                             | M07-0247 | AGS | 5/28/07 |                       | .001±.005/.004±.013              |                       | sheet 1 of 2 size<br>A3                              |
| R                             | M07-0337 | MHT | 7/23/07 | 0°±2'                 | .0001±.0020/.001±.005            |                       | type<br>Product Customer Drawing                     |
| S                             | M07-0361 | MHT | 8/14/07 | dr                    | D. INGRAM 05/10/99               |                       |                                                      |
| T                             | M08-0237 | MHT | 8/25/08 | engr                  | H. SUNDY 07/15/99                |                       |                                                      |
| U                             | M08-0279 | MHT | 9/30/08 | chr                   | H. SUNDY 07/15/99                |                       |                                                      |
| V                             | M09-0090 | MHT | 6/19/09 | appd                  | H. SUNDY 07/15/99                |                       |                                                      |
| 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         | ecp 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           |         |          |                                       |                     |            |                          |