

PRODUCT NUMBER

54102 - X XX - XX - XXX X LF

LEAD FREE  
NOTE 12 & 13

RETENTION  
R= RETENTIVE LEG, SEE NOTES 5 & 7

POLARIZATION SEE NOTES 7 & 8

BERGSTIK  
POSITIONS PER ROW, 01 to 36  
SEE NOTE 10

BERGSTRIK  
POSITIONS PER REEL, 00=45,000 (BERGSTRIK)  
PIN STYLES 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 |

PLATING:  
S=15u"/0.38um GOLD ON CONTACT AREA  
100u"/2.54um TIN ON TAIL (NOTE 16)  
G=30u"/0.76um GOLD ON CONTACT AREA  
100u"/2.54um TIN ON TAIL (NOTE 16)  
T=100-160u"/2.54-4.06um TIN ON CONTACT AREA  
AND ON TAIL (SEE NOTE 11 & 15).



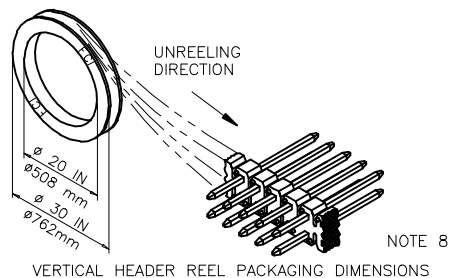
|             |                 |         |          |                                       |          |                     |          |                |                          |
|-------------|-----------------|---------|----------|---------------------------------------|----------|---------------------|----------|----------------|--------------------------|
| mat'l. code | SEE NOTES 1 & 2 | surface | ISO 1902 | tolerance                             | ISO 406  | projection          | ISO 1901 | product family | BERGSTIK                 |
| ltr         | ecn no          | dr      | date     | tolerances unless otherwise specified |          |                     |          | title          | .100 UNSHROUDED HDR.     |
| L           | M06-0268        | MHT     | 7/17/06  | angles                                | linear   | XX±.01/.03          | INCH/MM  | D/R THRU HOLE  |                          |
| M           | M06-0346        | MHT     | 9/04/06  | linear                                | linear   | .XXX±.006/XX±0.13   | scale    | 1:1            |                          |
| N           | M07-0247        | AGS     | 5/28/07  | 0'±2'                                 | linear   | .XXX±.0020/XXX±0.05 |          |                |                          |
| P           | M07-0337        | MHT     | 7/23/07  | dr                                    | D.INGRAM | 05/16/99            |          |                |                          |
| R           | M08-0237        | MHT     | 8/25/08  | engr                                  | H.SUNDY  | 07/21/99            |          |                |                          |
| S           | M08-0279        | MHT     | 9/30/08  | chr                                   | H.SUNDY  | 07/21/99            |          |                |                          |
| T           | M09-0090        | MHT     | 6/19/09  | appd                                  | H.SUNDY  | 07/21/99            |          |                |                          |
| sheet       | revision        | T       | T        |                                       |          |                     |          | dwg no         | 54102                    |
| index       | sheet           | 1       | 2        |                                       |          |                     |          | type           | Product Customer Drawing |

NOTES:

- ① BERGSTIK /BERGSTRIIP 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 OF .120/3.05 ONLY. RETENTION IS APPLIED TO TWO PINS  
PER PART, ADJACENT TO ONE ANOTHER. 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 MANUF. OMIT FROM PRODUCT  
NUMBER IF FEATURE IS NOT APPLICABLE.
- ⑥ BERGSTIK PACKAGED IN POLY BAGS. BERGSTRIIP PACKAGED PER REEL.
- ⑦ POLARIZATION AND RETENTION NOT APPLICABLE TO BERGSTRIIP.
- ⑧ FOR POLARIZATION SPECIFY POSITION NUMBER (i.e.. A03=ROW A POS. 3) TO OMIT PIN. OMIT FROM  
PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.
- ⑨ UNDERPLATING: 50μ"/1.27μm Ni.
- ⑩ POSITIONS PER ROW 37 TO 50 CAN BE PRODUCED, BUT FLATNESS AND CURVATURE MAY NOT BE HELD  
TO PRINT SPECIFICATION.
- ⑪ PIN TIPS ON TIN PLATED PRODUCT MAY HAVE BARE METAL ON TWO SIDES, 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 |
|----------------|----------------|
| 77313-101-XXLF | 54102-G05XXLF  |
| 77313-801-XXLF | 54102-S05XXLF  |
| 77313-118-XXLF | 54102-G08XXLF  |
| 77313-818-XXLF | 54102-S08XXLF  |



|                |                     |                                  |                  |                                       |
|----------------|---------------------|----------------------------------|------------------|---------------------------------------|
| mat'l code     | surface<br>ISO 1302 | tolerance<br>ISO 406<br>ISO 1101 | projection       | product family<br>BERGSTIK            |
| ltr            | ecr no              | dr                               | date             | title                                 |
| T              |                     |                                  |                  | .100 UNSHROUDED HDR.<br>D/R THRU HOLE |
|                |                     | angles                           | linear           | INCH/MM                               |
|                |                     | 0° ± 2°                          | .xxx ± .005/0.13 | scale 1:1                             |
|                |                     | dr                               | D.INGRAM         | 05/16/99                              |
|                |                     | engr                             | H.SUNDY          | 07/21/99                              |
|                |                     | chr                              | H.SUNDY          | 07/21/99                              |
|                |                     | appd                             | H.SUNDY          | 07/21/99                              |
| sheet<br>index | revision<br>sheet   |                                  |                  | dwg no<br>54102                       |
|                |                     |                                  |                  | sheet 2 of 2 size<br>A3               |
|                |                     |                                  |                  | type<br>Product Customer Drawing      |