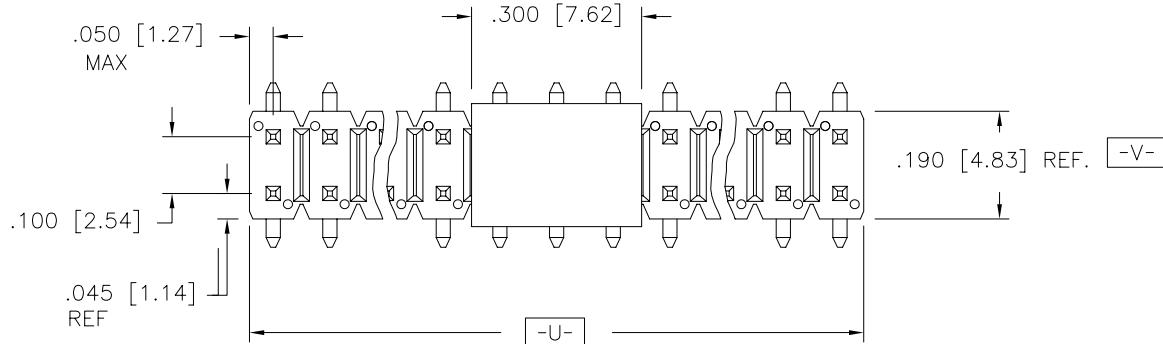


PRODUCT NO.  
XXXXX-YYYHPZLF

- LEAD FREE OPTION (SEE NOTE 1,8)
- PACKAGING OPTIONS (SEE NOTE 1)
- HIGH TEMPERATURE PLASTIC (SEE NOTE 1)
- NO. OF POSITIONS (SEE NOTE 1)
- PLATING NUMBER (SEE SHEET 2)
- BASE PART NUMBER (SEE SHEET 4)



□.025±.001 [0.64±0.03]  
TYP  
⊕ ∅.020 [0.51] (M) U (M) V  
NOTE 4

MATING LENGTH  
DIM H ± .008 [0.20]

HEIGHT ABOVE BOARD

∆.004 [0.10]

PICK-UP CAP  
(IF REQ'D)

.100 [2.54]  
TYP

.100 [2.54]  
REF

.217 [5.51]

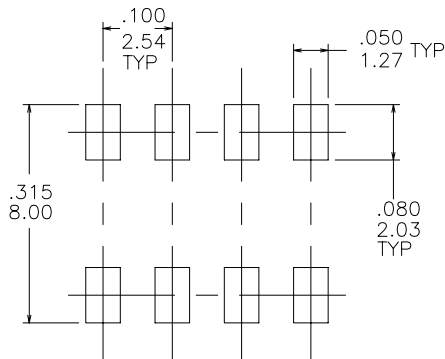
.305 [7.75] MAX.  
OVERALL WIDTH

|                                |          |                       |          |                                  |                                       |                 |                               |                            |  |
|--------------------------------|----------|-----------------------|----------|----------------------------------|---------------------------------------|-----------------|-------------------------------|----------------------------|--|
| mat'l. code<br>SEE NOTES 2 & 3 |          | surface<br>ISO 1302 ✓ |          | tolerance<br>ISO 406<br>ISO 1101 |                                       | projection<br>⊕ |                               | product family<br>BERGSTIK |  |
| ltr                            | ecm      | no                    | dr       | date                             | tolerances unless otherwise specified |                 | title                         |                            |  |
| AE                             | v94316   | LSS                   | 11/15/99 | angles                           | .xx±.01/.3                            |                 | BERGSTIK® II HDR. D/R         |                            |  |
| AF                             | v20565   | GIP                   | 3/22/02  | linear                           | .xxx±.005/.13                         |                 | .100/2.54cc VERT. SMT         |                            |  |
| AG                             | v20849   | GIP                   | 7/18/02  | 0°±2'                            | .xxxx±.0020/.051                      |                 | scale 1:1                     |                            |  |
| AH                             | M04-0234 | MHT                   | 12/19/04 | dr                               | T. BREWBAKER                          | 12/29/92        | dwg no                        |                            |  |
| AJ                             | M05-0072 | MHT                   | 5/03/05  | enfr                             | T. HANNA                              | 12/29/92        | sheet 1 of 4 size             |                            |  |
| AK                             | M06-0269 | MNR                   | 7/17/06  | chr                              | T. HANNA                              | 12/29/92        | 78227                         |                            |  |
| AL                             | M06-0356 | MHT                   | 9/08/06  | appd                             | T. HANNA                              | 12/29/92        | A3                            |                            |  |
| sheet                          | revision | AL                    | AL       | AL                               | AL                                    |                 | type Product Customer Drawing |                            |  |
| index                          | sheet    | 1                     | 2        | 3                                | 4                                     |                 |                               |                            |  |

| PIN PLATING CODES: |                                                         |
|--------------------|---------------------------------------------------------|
| XXXX-1YY           | 30u"/0.76u MIN (SEE NOTE 9) OVER 50u"/1.27u MIN Ni      |
| XXXX-2YY           | 15u"/0.38u MIN (SEE NOTE 9) OVER 50u"/1.27u MIN Ni      |
| XXXX-3YY           | 50u"/1.27u MIN Au OVER 50u"/1.27u MIN Ni                |
| XXXX-4YY           | 100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 10) |
| XXXX-4YYHLF        |                                                         |
| XXXX-5YY           | 15u"/0.38u MIN (SEE NOTE 9) OVER 50u"/1.27u MIN Ni      |
| XXXX-6YY           | 30u"/0.76u MIN (SEE NOTE 9) OVER 50u"/1.27u MIN Ni      |
| XXXX-7YY           | 30u"/0.76u MIN Au OVER 50u"/1.27u MIN Ni                |
| XXXX-8YY           | 15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni                |
| XXXX-9YY           | 15u"/0.38u MIN GXT OVER 50u"/1.27u MIN Ni               |
| XXXX-0YY           | 30u"/0.76u MIN GXT OVER 50u"/1.27u MIN Ni               |

NOTES

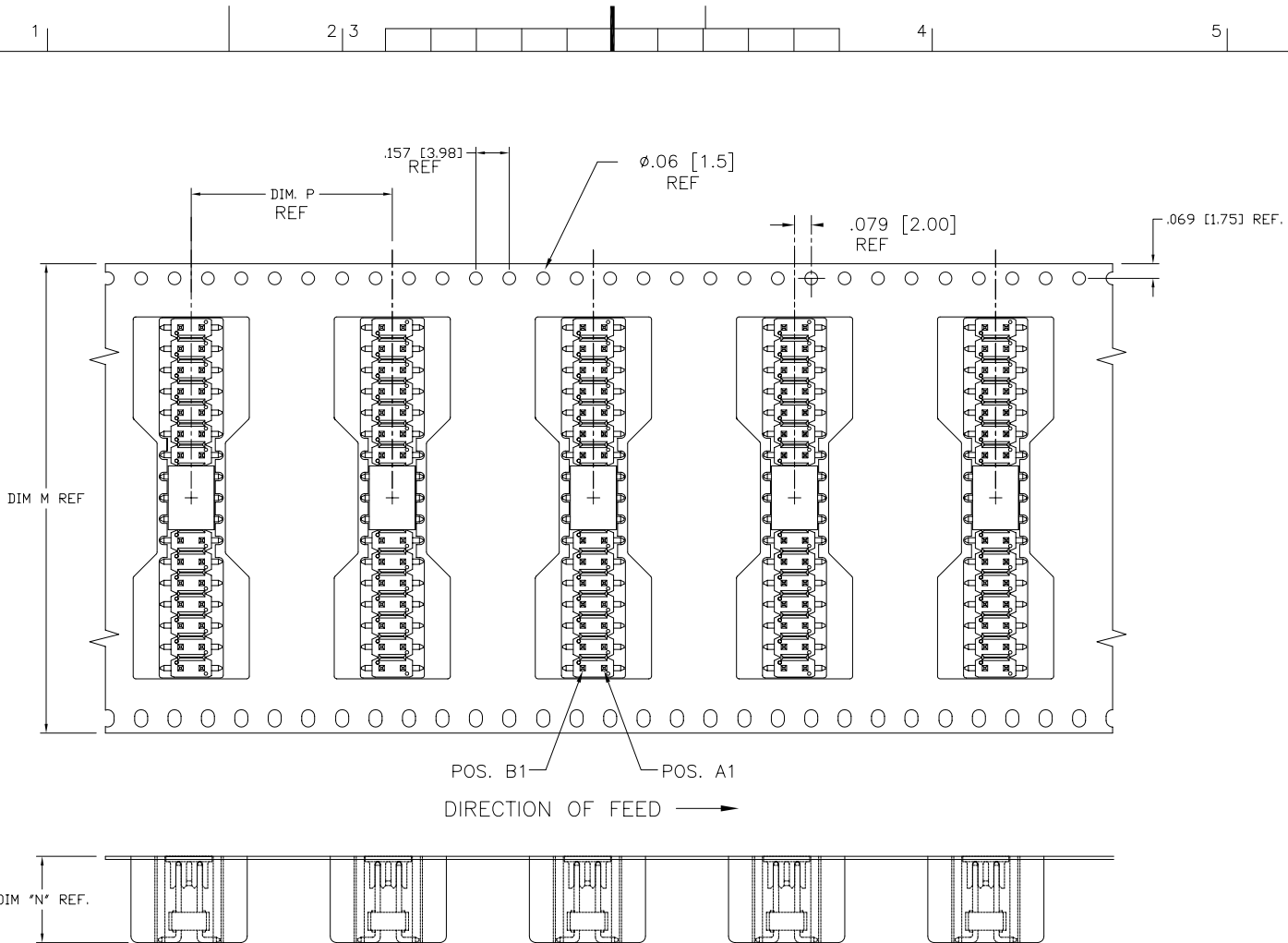
1. PART NUMBER OPTIONS:  
PIN PLATING CODES (SEE ABOVE)  
HIGH TEMP. MATERIAL:  
FOR HIGH TEMPERATURE APPLICATIONS, SPECIFY AN "H" AT THE END OF THE PART NUMBER TO INDICATE HIGH-TEMP PLASTIC IS SUPPLIED.  
NUMBER OF POSITION:  
NUMBER OF POSITIONS FROM 4(2X2) THRU 40(2X20), EXCEPT TAPE ON REEL AVAILABLE 4(2X2) THRU 34(2X17).  
PACKAGING:  
CHECK SPECIFIC PART NUMBERS FOR AVAILABILITY.  
PART NUMBERS WITHOUT A SUFFIX ARE PACKAGED IN POLY BAGS.  
PART NUMBERS FOLLOWED BY A "T" SUFFIX ARE PACKAGED IN TUBES.  
PART NUMBERS FOLLOWED BY A "V" SUFFIX ARE PACKAGED TAPE-ON-REEL WITH A PICK-UP CAP INSTALLED. THE "Z" DIGIT FOLLOWING THE "V" INDICATES CUSTOMER SPECIAL TAPE.  
LEAD FREE:  
ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION, NOT AVAILABLE FOR -5YY, -5YYH, -6YY & -6YYH.
2. BODY MATERIAL:  
PCT, GLASS FIBER REINFORCED, FLAME RETARDENT PER UL-94V-0.  
COLOR: BLACK.  
  
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 CONDICTION.
5. TWO SIDES OF PIN TIPS NOT PLATED TYPICAL BOTH ENDS.
6. 2LBS/0.9KG MIN PIN RETENTION IN EITHER DIRECTION.
7. CONTACT MARKETING BEFORE ORDERING ANY ODD POSITION PART NUMBER SUCH AS 2X3, 2X5, 2X7, ETC PACKAGED TAPE-ON-REEL.
8. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
9. PLATING OPTIONS:  
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.
10. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."



RECOMMENDED PAD LAYOUT  
SCALE 4/1

|             |  |                |  |                          |  |                                       |  |                               |  |
|-------------|--|----------------|--|--------------------------|--|---------------------------------------|--|-------------------------------|--|
| mat'l. code |  | surface        |  | tolerance                |  | projection                            |  | product family                |  |
| -           |  | ISO 1302 ✓     |  | ISO 406                  |  | ISO 1101                              |  | BERGSTIK                      |  |
| ltr         |  | ecn no dr      |  | date                     |  | tolerances unless otherwise specified |  | title                         |  |
| AL          |  |                |  |                          |  | .xx±.01/.3                            |  | BERGSTIK® II HDR. D/R         |  |
|             |  |                |  |                          |  | .xxx±.005/.13                         |  | .100/2.54cc VERT. SMT         |  |
|             |  |                |  |                          |  | .xxxx±.0020/.051                      |  | scale 1:1                     |  |
|             |  |                |  | dr T. BREWBAKER 12/29/92 |  | INCH/MM                               |  | dwg no sheet 2 of 4 size      |  |
|             |  |                |  | enfr T. HANNA 12/29/92   |  | FCI                                   |  | 78227 A3                      |  |
|             |  |                |  | chr T. HANNA 12/29/92    |  | scale 1:1                             |  | type Product Customer Drawing |  |
|             |  |                |  | appd T. HANNA 12/29/92   |  |                                       |  |                               |  |
| sheet index |  | revision sheet |  |                          |  |                                       |  |                               |  |

PRODUCT NUMBER  
SEE TABLE



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|             |  |            |  |                                       |  |                 |  |                       |  |
|-------------|--|------------|--|---------------------------------------|--|-----------------|--|-----------------------|--|
| mat'l. code |  | surface    |  | tolerance                             |  | projection      |  | product family        |  |
| -           |  | ISO 1302 ✓ |  | ISO 406<br>ISO 1101                   |  |                 |  | BERGSTIK              |  |
| ltr         |  | ecn        |  | no                                    |  | dr              |  | date                  |  |
| AL          |  |            |  |                                       |  |                 |  |                       |  |
|             |  |            |  | tolerances unless otherwise specified |  |                 |  | title                 |  |
|             |  |            |  | angles                                |  | linear          |  | INCH/MM               |  |
|             |  |            |  | 0°±2'                                 |  | .xx±.01/.3      |  | BERGSTIK® II HDR. D/R |  |
|             |  |            |  |                                       |  | .xxx±.005/.13   |  | .100/2.54cc VERT. SMT |  |
|             |  |            |  |                                       |  | .xxx±.0020/.051 |  | scale 1:1             |  |
|             |  |            |  | dr                                    |  | T. BREWBAKER    |  | 12/29/92              |  |
|             |  |            |  | enr                                   |  | T. HANNA        |  | 12/29/92              |  |
|             |  |            |  | chr                                   |  | T. HANNA        |  | 12/29/92              |  |
|             |  |            |  | appd                                  |  | T. HANNA        |  | 12/29/92              |  |
| sheet       |  | revision   |  |                                       |  |                 |  |                       |  |
| index       |  | sheet      |  |                                       |  |                 |  |                       |  |



dwg no 78227  
sheet 3 of 4 size A3  
type Product Customer Drawing

| PRODUCT NUMBER | MATING LENGTH |        | HT. ABOVE BOARD |        | PACKAGING AVAILABLE   | TAPE WIDTH OVERALL |        | POCKET DEPTH OVERALL |        | POCKET PITCH |        | LF OPTION |          |
|----------------|---------------|--------|-----------------|--------|-----------------------|--------------------|--------|----------------------|--------|--------------|--------|-----------|----------|
|                | ENGLISH       | METRIC | ENGLISH         | METRIC |                       | ENGLISH            | METRIC | ENGLISH              | METRIC | ENGLISH      | METRIC |           |          |
|                | DIM H         | DIM H  | ----            | ----   |                       | DIM M              | DIM M  | DIM N                | DIM N  | DIM P        | DIM P  |           |          |
| 73502-XYH      | 0.420         | 10.67  | 0.150           | 3.81   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    | NOTE 1,8  |          |
| 74938-XYH      | 0.330         | 5.84   | 0.150           | 3.81   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 78227-XY       | 0.230         | 5.84   | 0.125           | 3.18   | POLY BAGS / TUBES     | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 78227-410HV2   | 0.230         | 5.84   | 0.125           | 3.18   | TAPE-ON-REEL          | 0.945              | 24.00  | 0.415                | 10.54  | 0.787        | 20.00  |           |          |
| 78588-XY       | 0.318         | 8.08   | 0.125           | 3.18   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 79682-XY       | 0.505         | 12.83  | 0.125           | 3.18   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 79683-XY       | 0.700         | 17.78  | 0.125           | 3.18   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 93988-XYH      |               |        |                 |        | U N A V A I L A B L E |                    |        |                      |        |              |        |           |          |
| 94623-XYH      | 0.350         | 8.89   | 0.125           | 3.18   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 95086-XYH      | 0.183         | 4.65   | 0.125           | 3.18   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 98330-XYH      | 0.290         | 7.37   | 0.150           | 3.81   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 98354-XYH      | 0.219         | 5.56   | 0.125           | 3.18   | POLY BAGS             | N/A                | N/A    | N/A                  | N/A    | N/A          | N/A    |           |          |
| 78227-406HV2   | 0.230         | 5.84   | .125            | 3.18   | TAPE ON REEL          | .945               | 24.00  | .415                 | 10.54  | .787         | 20.00  |           | NOTE 1,8 |



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|             |  |                |  |                          |  |                                       |  |                       |  |                          |  |
|-------------|--|----------------|--|--------------------------|--|---------------------------------------|--|-----------------------|--|--------------------------|--|
| mat'l. code |  | surface        |  | tolerance                |  | projection                            |  | product family        |  |                          |  |
| -           |  | ISO 1302       |  | ISO 406                  |  | 1st angle                             |  | BERGSTIK              |  |                          |  |
| ltr         |  | ecn no         |  | date                     |  | tolerances unless otherwise specified |  | title                 |  |                          |  |
| AL          |  |                |  |                          |  | .xx±.01/.3                            |  | BERGSTIK® II HDR. D/R |  |                          |  |
|             |  |                |  |                          |  | .xxx±.005/.13                         |  | .100/2.54cc VERT. SMT |  |                          |  |
|             |  |                |  |                          |  | .xxx±.0020/.051                       |  | scale 1:1             |  |                          |  |
|             |  |                |  | dr T. BREWBAKER 12/29/92 |  |                                       |  | dwg no                |  |                          |  |
|             |  |                |  | enr T. HANNA 12/29/92    |  |                                       |  | sheet 4 of 4          |  | size                     |  |
|             |  |                |  | chr T. HANNA 12/29/92    |  |                                       |  | 78227                 |  | A3                       |  |
|             |  |                |  | appd T. HANNA 12/29/92   |  |                                       |  | type                  |  | Product Customer Drawing |  |
| sheet index |  | revision sheet |  |                          |  |                                       |  |                       |  |                          |  |

form: A3 1 2 3 4 5 6