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form: A3

PRODUCT NUMBER  
77313-YXX-XXLF

PLATING SEE SHEET 2

PIN STYLE SEE SHEET 2

RoHS COMPATIBLE  
SEE NOTE 7

TOTAL NB OF POSITIONS 04 TO 72  
OPTION LETTERS : NOTE 8

PRODUCT NUMBER (BERGSTRIK PACKAGING)  
77313-YXX-OOLF

PLATING

INDICATES THE PRODUCT IS RoHS  
COMPATIBLE, SEE NOTE 6

POSITIONS PER REEL : 00=45,000 (BERGSTRIK)

1= 0.76µm GOLD/GXT ON CONTACT  
AREA, 2µm TIN MIN ON TAILS

8= 0.38µm GOLD/GXT ON CONTACT  
AREA, 2µm TIN MIN ON TAILS

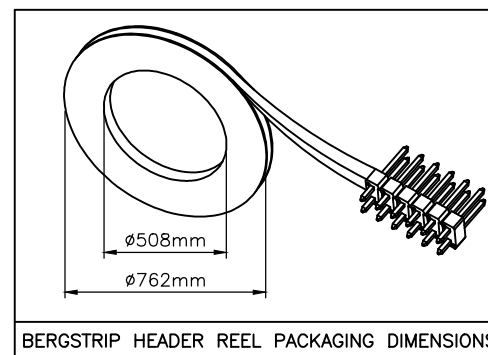
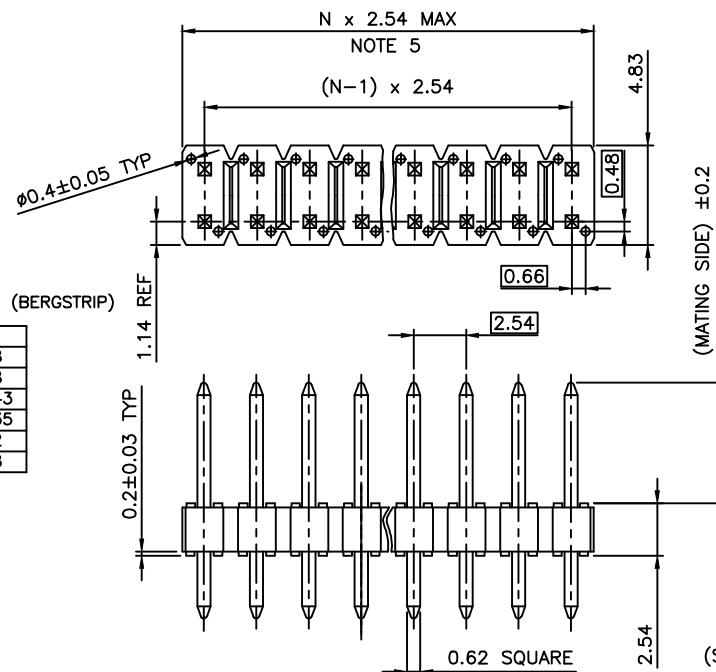
4= 2.0µm TIN MIN FULL PLATED  
1.27µm NICKEL MIN UNDERLAYER FOR  
ALL PLATING VERSIONS

## NOTES:

- HOUSING MAT'L : HIGH TEMPERATURE  
THERMOPLASTIC. UL94V-0 COLOR: BLACK
- PIN MATERIAL : PHOSPHOR BRONZE
- BERGSTIK PRODUCT PACKAGED IN POLY BAGS.  
BERGSTRIK PRODUCT PACKAGED PER REELS.
- 9N MIN RETENTION IN EITHER DIRECTION
- TO DETERMINE DIMENSIONS :  
N = NUMBER OF POSITIONS PER ROW  
EXAMPLE : 8 POS N x 2.54 = 20.32mm
- FOR PIN IN PASTE SOLDERING APPLICATION :  
FINISHED PLATED HOLE Ø1.02-Ø1.06  
LAND Ø1.45 MAX
- RoHS COMPATIBLE PRODUCT SPECIFICATIONS
  - PLATING:
    - "LF" MEANS THE PRODUCT IS LEAD-FREE, 2µm MINIMUM  
MATTE TIN OVER 1.27µm MINIMUM NICKEL UNDERPLATE
  - MANUFACTURING PROCESS COMPATIBILITY
    - THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C ±5°C SOLDER BATH TEMPERATURE  
FOR 5 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.6mm MIN THICK CIRCUIT BOARD
  - LABELING:
    - MEETS PACKAGING SPECS AS PER GS-14-920
  - LEGAL STATEMENT: SEE GS-47-0004

8. OPTIONS :
- = POLYBAG PACK
  - "A" = TAPE & REEL WITH CAP
  - "T" = STANDARD TUBE PACKAGING
  - "V" = BLIBOX PACK FOR CUSTOMER DEDICATED PART
  - "AV" = TAPE & REEL WITH CAP FOR CUSTOMER DEDICATED PART
  - "KV" = TAPE & REEL WITHOUT CAP FOR CUSTOMER DEDICATED PART
  - "TV" = TUBE WITHOUT CAP FOR CUSTOMER DEDICATED PART
  - "R" = RETENTION FEATURE PAGE 2
- IF RETENTION FEATURE "R" AND TUBE PACKAGING "T" ARE BOTH REQUIRED  
OPTIONAL LETTER "R" WILL APPEAR INSTEAD OF THE FIRST DASH  
EXAMPLE : 77313R118T40LF

| PIN STYLE | MATING | SOLDER | OAL   |
|-----------|--------|--------|-------|
| 01        | 5.84   | 2.41   | 10.8  |
| 02        | 5.84   | 3.42   | 11.8  |
| 18        | 5.84   | 3.05   | 11.43 |
| 22        | 7.75   | 3.05   | 13.35 |
| 24        | 6.75   | 2.9    | 12.2  |
| 27        | 6.6    | 2.66   | 11.8  |



|                          |                                       |                                     |                  |                                     |
|--------------------------|---------------------------------------|-------------------------------------|------------------|-------------------------------------|
| mat'l. code<br>SEE NOTES | surface<br>ISO 1302                   | tolerance<br>ISO 406 ISO 1101       | projection<br>mm | product family<br>BERGSTIK          |
| ltr ecn no dr date       | tolerances unless otherwise specified | linear .X ±0.3 .XX ±0.15 .XXX ±0.05 | scale 5:1        | title<br>UNSHR.HEADER<br>STR DR TMT |
| BX F-21455 AMA 15.07.20  | angles                                |                                     |                  | dwg no<br>77313                     |
| BS B-18917 LMU 14.09.26  | dr                                    | D.LE                                |                  | sheet 1 of 2                        |
| BT B-19782 AMA 14.12.18  | engr                                  | JM.C                                |                  | size<br>A3                          |
| BU B-19886 BVE 15.01.05  | chr                                   | JM.C                                |                  | type<br>CUSTOMER                    |
| BV B-20321 AMA 15.01.26  | appd                                  | JCO                                 |                  | Drawing                             |
| BW B-20596 AMA 15.03.30  |                                       |                                     |                  |                                     |
| sheet revision BX BJ     |                                       |                                     |                  |                                     |
| index sheet 1 2          |                                       |                                     |                  |                                     |

# PLATING

- 1 = 0.76μm GOLD/GXT ON CONTACT AREA, 2μm TIN MIN ON TAIL
- 4 = 2μm TIN MIN FULL PLATED
- 5 = 0.25μm GOLD/GXT ON CONTACT AREA, 2μm TIN MIN ON TAIL
- 8 = 0.38μm GOLD/GXT ON CONTACT AREA, 2μm TIN MIN ON TAIL
- G = 0.76μm FULL GXT
- S = 0.38μm FULL GXT
- T = 2μm TIN MIN FULL PLATED INCLUDED PIN TYP
- 1.27μm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS

## RETENTION OPTION



## NOTES:

- PART NUMBER 77313-YXXRXXLF
- 4 PINS "A" USED FOR RETENTION  
DIRECTION OF RETENTION SHOWN BY ARROWS  
PIN "A" AT EACH END OF HEADER.
- FOR RETENTION OPTION , SOLDER TAIL LENGTH TO BE  
2.9 MIN UP TO 3.5 MAX.

## PRODUCTS SPECIFICATIONS

| PIN | STYLE | MATING | SOLDER | OAL   |
|-----|-------|--------|--------|-------|
| 01  |       | 5.84   | 2.41   | 10.8  |
| 02  |       | 5.84   | 3.42   | 11.8  |
| 03  |       | 5.72   | 5.09   | 13.35 |
| 04  |       | 5.72   | 7.64   | 15.90 |
| 15  |       | 8.51   | 2.55   | 13.6  |
| 18  |       | 5.84   | 3.05   | 11.43 |
| 19  |       | 12.83  | 3.03   | 18.4  |
| 20  |       | 15.37  | 3.04   | 20.95 |
| 22  |       | 7.75   | 3.05   | 13.35 |
| 24  |       | 6.75   | 2.9    | 12.2  |
| 27  |       | 6.6    | 2.65   | 11.8  |
| 29  |       | 17.46  | 3.50   | 23.5  |
| 38  |       | 5.84   | 3.82   | 12.20 |
| 46  |       | 8.08   | 2.98   | 13.6  |
| 52  |       | 9.5    | 3.05   | 15.09 |
| 57  |       | 8.46   | 3.05   | 14.05 |
| 58  |       | 14.47  | 3.05   | 20.06 |
| 83  |       | 20.46  | 3.0    | 26.0  |
| 85  |       | 10.5   | 2.9    | 15.9  |
| 87  |       | 6.98   | 3.05   | 12.57 |

## PRODUCTS SPECIFICATIONS

| PIN | STYLE | MATING | SOLDER | OAL   |
|-----|-------|--------|--------|-------|
| 89  |       | 6.93   | 5.00   | 14.47 |
| 90  |       | 6.75   | 4.05   | 13.34 |
| 91  |       | 5.60   | 10.21  | 18.4  |
| 92  |       | 5.65   | 12.76  | 20.95 |
| 93  |       | 6.00   | 4.81   | 13.35 |
| 94  |       | 9.65   | 2.90   | 15.09 |
| 95  |       | 8.90   | 3.60   | 15.09 |
| 96  |       | 20.83  | 3.05   | 26.42 |
| 97  |       | 14.70  | 3.70   | 20.95 |
| 98  |       | 6.00   | 6.00   | 14.47 |
| 99  |       | 8.05   | 2.25   | 12.8  |
| AA  |       | 11.90  | 3.30   | 17.70 |
| AB  |       | 7.00   | 1.50   | 11.00 |
| AC  |       | N/A    |        |       |
| AD  |       | 8.51   | 10.59  | 21.64 |
| AE  |       | 3.30   | 3.30   | 9.14  |
| AF  |       | N/A    |        |       |
| AG  |       | 4.79   | 3.00   | 10.33 |
| AH  |       | 2.67   | 3.43   | 8.64  |
| AJ  |       | 8.00   | 8.00   | 18.54 |
| AK  |       | 7.00   | 7.00   | 16.54 |
| AL  |       | 5.90   | 1.60   | 10.05 |
| AM  |       | 12.06  | 2.60   | 17.20 |
| AN  |       | 11.50  | 1.90   | 15.94 |
| AP  |       | 14.00  | 2.20   | 18.70 |
| AR  |       | 8.96   | 2.10   | 13.60 |

|             |          |     |          |                                       |                  |            |                       |  |  |  |
|-------------|----------|-----|----------|---------------------------------------|------------------|------------|-----------------------|--|--|--|
| 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                 |  |  |  |
| BE          | B-18917  | LMU | 14.09.26 | angles                                | linear           |            | UNSHR.HEADER          |  |  |  |
| BF          | B-19782  | AMA | 14.12.18 |                                       |                  |            | STR DR TMT            |  |  |  |
| BG          | B-20321  | AMA | 15.01.26 |                                       |                  |            | scale N/A             |  |  |  |
| BH          | B-20596  | AMA | 15.03.30 | dr                                    | D.LE             | 01.01.24   | dwg no                |  |  |  |
| BJ          | F-21455  | AMA | 15.07.20 | enr                                   | JM.C             | 01.01.24   | sheet 2 of - size     |  |  |  |
| BD          | B-16639  | JCO | 14.01.03 | chr                                   | JM.C             | 01.01.24   | 77313 A3              |  |  |  |
|             |          |     |          | appd                                  | JF.N             | 01.01.24   | type CUSTOMER Drawing |  |  |  |
| sheet       | revision |     |          |                                       |                  |            |                       |  |  |  |
| index       | sheet    |     |          |                                       |                  |            |                       |  |  |  |