

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-00LF

PLATING

1= 0.76µm GOLD/GXT ON CONTACT  
AREA, 2µm TIN MIN ON TAILS8= 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 VERSIONSINDICATES THE PRODUCT IS RoHS  
COMPATIBLE, SEE NOTE 6

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

| 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  |

## 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
    - REFLOW COMPATIBLE
  - LABELING:
    - MEETS PACKAGING SPECS AS PER GS-14-920
  - LEGAL STATEMENT: SEE GS-47-0004

## 8. OPTIONS :

- = POLYBAG PACK

"A" = TAPE &amp; REEL WITH CAP, AS AVAILABLE

"T" = STANDARD TUBE PACKAGING

"V" = BLIBOX PACK FOR CUSTOMER DEDICATED PART

"AV" = TAPE &amp; REEL WITH CAP FOR CUSTOMER DEDICATED PART

"KV" = TAPE &amp; REEL WITHOUT CAP FOR CUSTOMER DEDICATED PART

"TV" = TUBE WITHOUT CAP FOR CUSTOMER DEDICATED PART

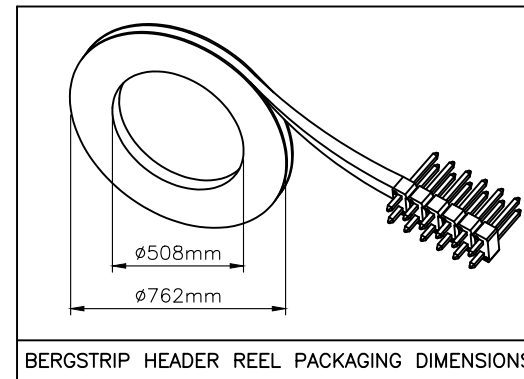
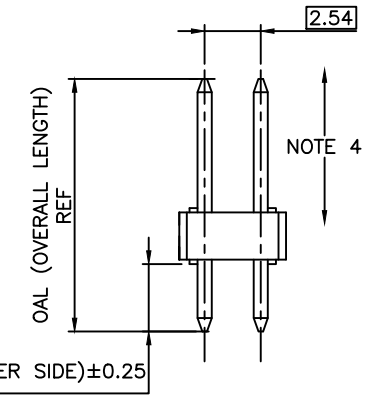
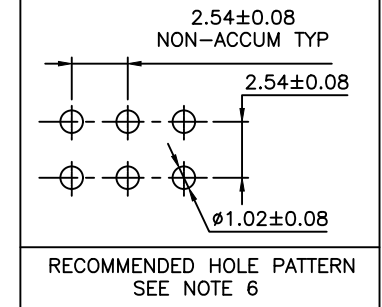
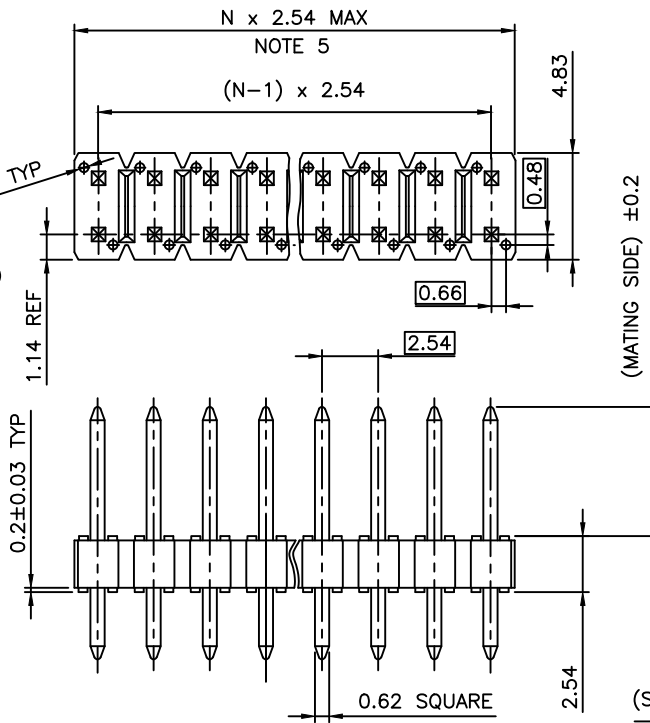
"R" = RETENTION FEATURE PAGE 2

IF RETENTION FEATURE "R" AND TUBE PACKAGING "T" ARE BOTH REQUIRED  
OPTIONAL LETTER "R" WILL APPEAR INSTEAD OF THE FIRST DASH

EXAMPLE : 77313R118T40LF

"KR" = T&amp;R WITHOUT CAP WITH RETENTION FEATURE

Ø0.4±0.05 TYP

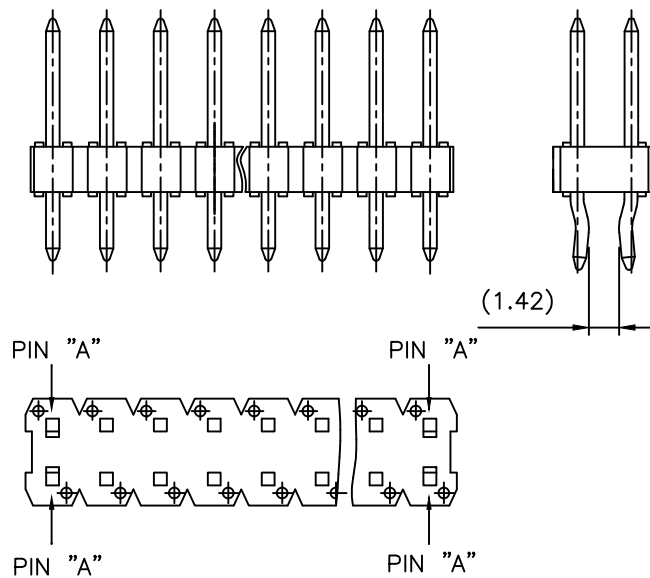


|                              |                                       |                  |            |                                   |
|------------------------------|---------------------------------------|------------------|------------|-----------------------------------|
| mat'l. code                  | surface                               | tolerance        | projection | product family                    |
| SEE NOTES                    | ISO 1302 ✓                            | ISO 406 ISO 1101 | mm         | BERGSTIK                          |
| ltr ecn no dr date           | tolerances unless otherwise specified | linear           | mm         | title                             |
| CG F-33925 LMU 19.06.14      | angles .X ±0.3 .XX ±0.15 .XXX ±0.05   |                  | scale 5:1  | UNSHR.HEADER<br>STR DR TMT        |
| CB F-23186 AMA 16.02.01      |                                       |                  |            | dwg no 77313 sheet 1 of 3 size A3 |
| CC F-23264 AMA 16.02.16 dr   | D.LE                                  | 01.01.24         |            | type CUSTOMER Drawing             |
| CD F-23581 AMA 16.03.22 engr | JM.C                                  | 01.01.24         |            |                                   |
| CE F-24865 AMA 16.08.31 chr  | JM.C                                  | 01.01.24         |            |                                   |
| CF B-26200 JCA 17.02.27 appd | JCO                                   | 01.01.24         |            |                                   |
| sheet revision CG BK D       |                                       |                  |            |                                   |
| index sheet 1 2 3            |                                       |                  |            |                                   |

# 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 |
| AS  |       | 8.08   | 2.72   | 13.37 |

|             |          |     |          |                                       |                  |            |                  |
|-------------|----------|-----|----------|---------------------------------------|------------------|------------|------------------|
| mat'l. code |          |     |          | surface                               | tolerance        | projection | product family   |
|             |          |     |          | ISO 1302                              | ISO 406 ISO 1101 |            | BERGSTIK         |
| ltr         | ecn no   | dr  | date     | tolerances unless otherwise specified |                  | mm         | 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 | engr                                  | JM.C             | 01.01.24   | sheet 2 of -     |
| BK          | F-22605  | BVE | 15.11.24 | chr                                   | JM.C             | 01.01.24   | size             |
|             |          |     |          | appd                                  | JF.N             | 01.01.24   | A3               |
| sheet       | revision |     |          |                                       |                  |            | type             |
| index       | sheet    |     |          |                                       |                  |            | CUSTOMER Drawing |

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PRODUCTS SPECIFICATIONS

| PIN | STYLE | MATING | SOLDER | OAL   |
|-----|-------|--------|--------|-------|
| AT  |       | 5.84   | 7.20   | 15.57 |
| AU  |       | 10.95  | 3.05   | 16.55 |
| AV  |       | 8.08   | 4.32   | 14.96 |
| AW  |       | 8.08   | 3.81   | 14.43 |
| AX  |       | 6.40   | 3.09   | 12.05 |
| AY  |       | 5.08   | 2.79   | 10.40 |
| BA  |       | 8.97   | 2.79   | 14.05 |
| BB  |       | 6.48   | 3.05   | 12.05 |
| BC  |       | 11.85  | 4.04   | 18.40 |
| BD  |       | 26.00  | 3.05   | 31.55 |
| BE  |       | 9.08   | 1.90   | 13.52 |
| BF  |       | 9.90   | 2.65   | 15.09 |
| BG  |       | 9.50   | 3.25   | 15.29 |
| BH  |       | 5.72   | 16.14  | 24.40 |

A

B

C

D

A

B

C

D



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|                        |  |                |  |                                       |  |                  |  |            |  |                                          |  |  |  |
|------------------------|--|----------------|--|---------------------------------------|--|------------------|--|------------|--|------------------------------------------|--|--|--|
| mat'l. code            |  |                |  | surface                               |  | tolerance        |  | projection |  | product family                           |  |  |  |
|                        |  |                |  | ISO 1302                              |  | ISO 406 ISO 1101 |  |            |  | BERGSTIK                                 |  |  |  |
|                        |  |                |  | tolerances unless otherwise specified |  |                  |  |            |  | title<br><br>UNSHR.HEADER<br>STR DR TMT  |  |  |  |
|                        |  |                |  | angles linear                         |  |                  |  |            |  |                                          |  |  |  |
| A F-22605 BVE 15.11.24 |  |                |  |                                       |  |                  |  | scale N/A  |  | dwg no sheet 3 of - size<br><br>77313 A3 |  |  |  |
| B F-23264 AMA 16.02.16 |  |                |  |                                       |  |                  |  |            |  |                                          |  |  |  |
| C B-26200 JCA 17.02.27 |  |                |  |                                       |  |                  |  |            |  | type CUSTOMER Drawing                    |  |  |  |
| D F-33925 LMU 19.06.14 |  |                |  | dr D.LE 01.01.24                      |  |                  |  |            |  |                                          |  |  |  |
|                        |  |                |  | engr JM.C 01.01.24                    |  |                  |  |            |  |                                          |  |  |  |
|                        |  |                |  | chr JM.C 01.01.24                     |  |                  |  |            |  |                                          |  |  |  |
|                        |  |                |  | appd JF.N 01.01.24                    |  |                  |  |            |  |                                          |  |  |  |
| sheet index            |  | revision sheet |  |                                       |  |                  |  |            |  |                                          |  |  |  |
|                        |  |                |  |                                       |  |                  |  |            |  |                                          |  |  |  |

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