

PRODUCT NUMBER  
77313-YYX-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-YYX-00LF

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

INDICATES THE PRODUCT IS RoHS  
COMPATIBLE, SEE NOTE 6  
POSITIONS PER REEL : 00=45,000 (BERGSTRIK)

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

| 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

a - PLATING:

- "LF" MEANS THE PRODUCT IS LEAD-FREE, 2µm MINIMUM MATTE TIN OVER 1.27µm MINIMUM NICKEL UNDERPLATE

b - 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

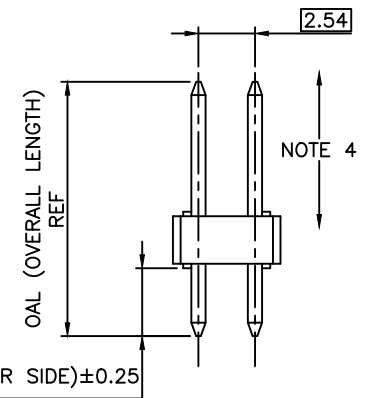
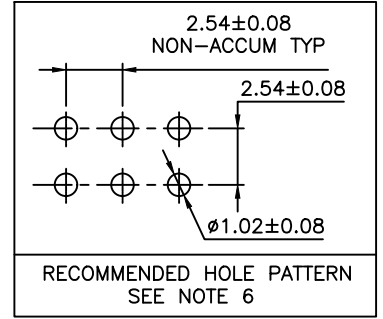
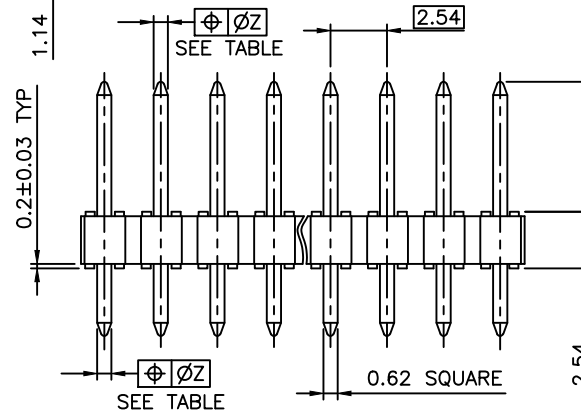
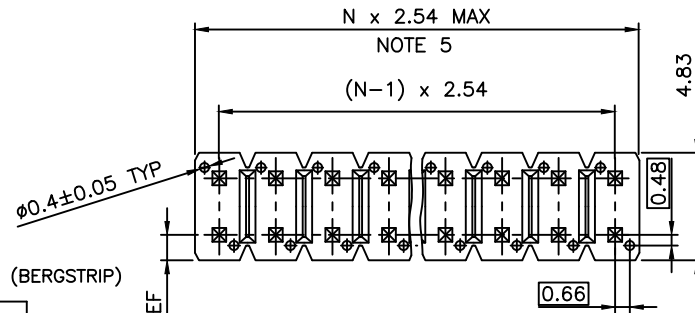
c - LABELING:

- MEETS PACKAGING SPECS AS PER GS-14-920

d - LEGAL STATEMENT: SEE GS-47-0004

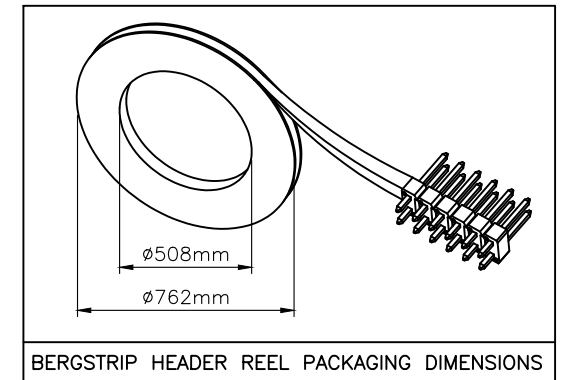
8. OPTIONS :

- = POLYBAG PACK
- "A" = TAPE & REEL WITH CAP, AS AVAILABLE
- "T" = STANDARD TUBE PACKAGING - ONLY AVAILABLE UPON REQUEST
- "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
- "KR" = T&R WITHOUT CAP WITH RETENTION FEATURE



TOLERANCE "Z" DEPEND UPON  
PIN MATING AND SOLDER LENGTHS

| MATING/SOLDER LENGTH | ØZ   | MATING/SOLDER LENGTH | ØZ    |
|----------------------|------|----------------------|-------|
| UP TO 10mm           | Ø0.4 | UP TO 14mm           | Ø0.45 |
| UP TO 18mm           | Ø0.5 | UP TO 22mm           | Ø0.55 |
| UP TO 26mm           | Ø0.6 | OVER 26mm            | Ø0.65 |

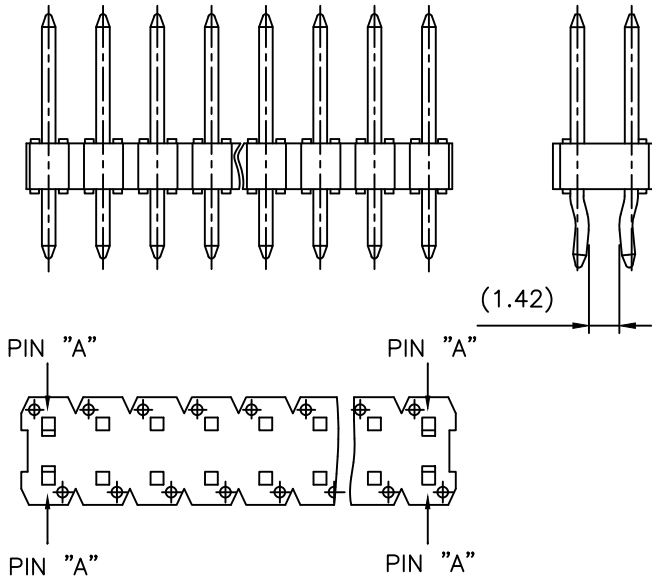


|                          |          |                       |                               |                                       |   |
|--------------------------|----------|-----------------------|-------------------------------|---------------------------------------|---|
| mat'l. code<br>SEE 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 | title<br>UNSHR.HEADER<br>STR DR TMT           |
| CG                       | F-33925  | LMU                   | 19.06.14                      | .x ±0.3                               | dwg no<br>77313<br>sheet 1 of 3<br>size<br>A3 |
| CH                       | F-40035  | DDE                   | 21.02.17                      | .xx ±0.15                             |   |
| CJ                       | F-45578  | DDE                   | 22.08.05                      | .xxx ±0.05                            | type<br>CUSTOMER<br>Drawing                   |
| CK                       | F-47089  | DDE                   | 23.01.23                      | dr D.LE 01.01.24                      |   |
| CL                       | F-47115  | DDE                   | 23.01.25                      | enfr JM.C 01.01.24                    |   |
| CM                       | F-48329  | DDE                   | 23.05.23                      | chr JM.C 01.01.24                     |   |
| CN                       | F-49596  | DDE                   | 23.10.27                      | appd JCO 01.01.24                     |   |
| sheet                    | revision | CN                    | BM                            | J                                     |   |
| 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 ONLY AVAILABLE UPON REQUEST
- 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



| 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 |
| 05                      | 5.72   | 10.14  | 18.40 |
| 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 |

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.

|  |  |  |  |                            |  |            |  |                                   |  |
|--|--|--|--|----------------------------|--|------------|--|-----------------------------------|--|
| mat'l. code                                |  | surface ISO 1302 <input checked="" type="checkbox"/> |  | tolerance ISO 406 ISO 1101 |  | projection |  | product family BERGSTIK           |  |
| ltr ecn no dr date                         |  | tolerances unless otherwise specified                |  | angles linear              |  | mm         |  | title UNSHR.HEADER STR DR TMT     |  |
| BM F-47089 DDE 23.01.23                    |  |  |  |                            |  | scale N/A  |  | dwg no 77313 sheet 2 of - size A3 |  |
| BG B-20321 AMA 15.01.26                    |  |  |  |                            |  |            |  | type CUSTOMER Drawing             |  |
| BH B-20596 AMA 15.03.30 dr D.LE 01.01.24   |  |  |  |                            |  |            |  |                                   |  |
| BJ F-21455 AMA 15.07.20 engr JM.C 01.01.24 |  |  |  |                            |  |            |  |                                   |  |
| BK F-22605 BVE 15.11.24 chr JM.C 01.01.24  |  |  |  |                            |  |            |  |                                   |  |
| BL F-45578 DDE 22.08.05 appd JF.N 01.01.24 |  |  |  |                            |  |            |  |                                   |  |
| sheet revision                             |  |  |  |                            |  |            |  |                                   |  |
| index sheet                                |  |  |  |                            |  |            |  |                                   |  |



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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 |
| BJ        | 4.00   | 2.69   | 9.23  |
| BK        | 10.50  | 3.20   | 16.24 |
| BL        | 18.29  | 3.05   | 23.88 |
| BM        | 10.00  | 2.54   | 14.84 |
| BN        | 13.21  | 3.00   | 18.75 |
| BP        | 28.00  | 4.00   | 34.50 |
| BR        | 16.60  | 2.90   | 22.04 |
| BS        | 6.75   | 6.75   | 16.00 |
| BT        | 15.76  | 3.50   | 21.80 |
| BU        | 20.76  | 3.50   | 26.80 |
| BV        | 11.85  | 2.36   | 16.75 |

A

B

C

D

A

B

C

D



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|             |          |     |          |  |      |                               |  |                |  |                                     |  |  |
|-------------|----------|-----|----------|--|------|-------------------------------|--|----------------|--|-------------------------------------|--|--|
| mat'l. code |          |     |          | surface<br>ISO 1302 <input checked="" type="checkbox"/> ISO 406 ISO 1101 |      | tolerance<br>ISO 406 ISO 1101 |  | projection<br> |  | product family<br>BERGSTIK          |  |  |
| ltr         | ecn no   | dr  | date     | tolerances unless otherwise specified                                    |      | angles                        |  | mm             |  | title<br>UNSHR.HEADER<br>STR DR TMT |  |  |
| H           | F-48329  | DDE | 23.05.23 |  |      | linear                        |  | scale N/A      |  |                                     |  |  |
| J           | F-49596  | DDE | 23.10.27 |  |      |                               |  |                |  |                                     |  |  |
| D           | F-33925  | LMU | 19.06.14 | dr   | D.LE | 01.01.24                      |  |                |  | dwg no sheet 3 of - size            |  |  |
| E           | F-40035  | DDE | 21.02.17 | enfr   | JM.C | 01.01.24                      |  |                |  | 77313 A3                            |  |  |
| F           | F-45578  | DDE | 22.08.05 | chr  | JM.C | 01.01.24                      |  |                |  |                                     |  |  |
| G           | F-47089  | DDE | 23.01.23 | appd   | JF.N | 01.01.24                      |  |                |  |                                     |  |  |
| sheet       | revision |     |          |  |      |                               |  |                |  |                                     |  |  |
| index       | sheet    |     |          |  |      |                               |  |                |  |                                     |  |  |