

PRODUCT NUMBER  
77311-YXX-XXLF

PLATING SEE SHEET 2

PIN STYLE SEE SHEET 2

RoHS COMPATIBLE  
SEE NOTE 6

TOTAL NB OF POSITIONS 01 TO 36  
OPTION LETTER SEE NOTE 7

PRODUCT NUMBER (BERGSTRIK PACKAGING)  
77311-YXX-00LF

PLATING

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

INDICATES THE PRODUCT IS RoHS  
COMPATIBLE, SEE NOTE 6

POSITIONS PER REEL : 00=36,000 (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 POLYBAGS.  
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

6. 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.

c - LABELING:

- MEETS PACKAGING SPECS AS PER GS-14-920

d - LEGAL STATEMENT: SEE GS-47-0004

7. OPTION LETTER :

T = TUBE PACKAGING WITHOUT PICK UP CAP

K = TAPE & REEL PACKAGING, WITHOUT PICK UP CAP  
ONLY FOR P/N 77311-462K04(LF) AND 77311-462K05(LF)

KV = TAPE & REEL PACKAGING WITHOUT PICK UP CAP FOR CUSTOMER DEDICATED PART  
ONLY FOR P/N 77311-462KV04LF

C = HIGHT RETENTION FEATURES, SEE SHEET 2

R = RETENTION FEATURES, SEE SHEET 2  
IF RETENTION FEATURE "R" AND TUBE PACKAGING "T" ARE BOTH REQUIRED  
OPTIONAL LETTER "R" WILL APPEAR INSTEAD OF THE FIRST DASH  
EXAMPLE : 77311R424T03LF

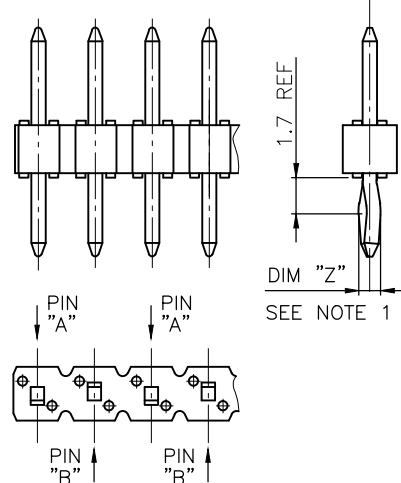


| mat'l. code<br>SEE NOTES |          |      |          | surface<br>ISO 1302 ✓ |        | tolerance<br>ISO 406 ISO 1101 |          | projection<br> |                                                                                       | product family<br>BERGSTIK |  |                  |      |
|--------------------------|----------|------|----------|-----------------------|--------|-------------------------------|----------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------|--|------------------|------|
| ltr                      | ecn no   | dr   | date     | tolerances unless     |        | otherwise specified           |          |                |                                                                                       | title                      |  |                  |      |
| BX                       | B-18917  | LMU  | 14.09.26 | angles                | linear | .X ±0.3                       |          | scale 5:1                                                                                           | UNSHR.HEADER<br>STR SR TMT                                                            |                            |  |                  |      |
| BY                       | B-19692  | JCOI | 14.12.09 |                       |        | .XX ±0.15                     |          |                                                                                                     |                                                                                       |                            |  |                  |      |
| CA                       | B-19720  | BVE  | 14.12.11 |                       |        | .XXX ±0.05                    |          |                                                                                                     |                                                                                       |                            |  |                  |      |
| CB                       | B-19782  | AMA  | 14.12.18 | dr                    | D.LE   |                               | 01.01.24 |                                                                                                     |  | dwg no                     |  | sheet 1 of 2     | size |
| CC                       | B-20169  | BVE  | 15.02.12 | enrg                  | JM.C   |                               | 01.01.24 |                                                                                                     |                                                                                       | 77311                      |  | A3               |      |
| CD                       | B-20497  | BVE  | 15.03.18 | chr                   | JM.C   |                               | 01.01.24 |                                                                                                     |                                                                                       | type                       |  | CUSTOMER Drawing |      |
| CE                       | B-20596  | AMA  | 15.03.30 | appd                  | JF.N   |                               | 01.01.24 |                                                                                                     |                                                                                       |                            |  |                  |      |
| sheet index              | revision | CE   | BU       |                       |        |                               |          |                                                                                                     |                                                                                       |                            |  |                  |      |
|                          | 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 FEATURES



## RETENTION FEATURES :

- PART NUMBER 77311-XXXXXXLF: DIM "Z"=(0.99)  
PART NUMBER 77311-XXXXXXLF: DIM "Z"= 1.05MIN -1.15MAX
- PINS "A" AND "B" USED FOR RETENTION.
- DIRECTION OF RETENTION SHOWN BY ARROWS.
- ON 4 TO 36 POSITIONS HEADER; RETENTION IS IN MID POSITION OF HEADER (4 CENTRAL PINS)
- FOR RETENTION OPTION , SOLDER TAIL LENGTH TO BE 2.9 MIN UP TO 3.5 MAX.
- HOUSING MATERIAL FOR P/N 77311-4AJC03LF & 77311-TAJC03LF  
HIGH TEMPERATURE THERMOPLASTIC UL94V-0 COLOR : NATURAL

## PLATING SPECIFICATIONS :

- ONLY FOR PLATING 1XX, 8.0MM GOLD / GXT PLATING AREA FROM PIN TYPE ON MATING SIDE

## 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 |
| 05  |       | 5.72   | 10.14  | 18.4  |
| 08  |       | 5.72   | 17.78  | 26.04 |
| 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  |
| 25  |       | 8.51   | 3.18   | 14.22 |
| 27  |       | 6.6    | 2.65   | 11.8  |
| 26  |       | 15.57  | 2.84   | 20.95 |
| 29  |       | 17.5   | 3.46   | 23.5  |
| 32  |       | 10.3   | 3.05   | 15.9  |
| 38  |       | 5.84   | 3.82   | 12.2  |
| 39  |       | 11.2   | 3.05   | 16.8  |
| 46  |       | 8.08   | 2.98   | 13.6  |
| 58  |       | 14.47  | 3.05   | 20.06 |
| 62  |       | 13.5   | 3.05   | 19.09 |
| 70  |       | 6.54   | 3.50   | 12.57 |
| 83  |       | 20.46  | 3.00   | 26.00 |
| 85  |       | 5.72   | 8.51   | 16.76 |
| 87  |       | 6.98   | 3.05   | 12.57 |
| 91  |       | 5.6    | 10.21  | 18.35 |

## PRODUCTS SPECIFICATIONS

| PIN | STYLE | MATING | SOLDER | OAL   |
|-----|-------|--------|--------|-------|
| 92  |       | 5.65   | 12.76  | 20.95 |
| 93  |       | 6.00   | 4.81   | 13.35 |
| 94  |       | 15.60  | 3.20   | 21.25 |
| 95  |       | 10.00  | 8.45   | 20.95 |
| 96  |       | 10.95  | 3.05   | 16.55 |
| 97  |       | 9.00   | 3.55   | 15.09 |
| 98  |       | 3.00   | 1.35   | 6.84  |
| 99  |       | 24.00  | 3.05   | 29.50 |
| AA  |       | 5.72   | 15.24  | 23.50 |
| AB  |       | N/A    |        |       |
| AC  |       | 7.21   | 3.05   | 12.80 |
| AD  |       | 17.53  | 3.43   | 23.50 |
| AE  |       | 4.99   | 2.80   | 10.33 |
| AF  |       | 5.72   | 3.05   | 11.30 |
| AG  |       | 5.84   | 4.95   | 13.33 |
| AH  |       | 14.31  | 3.20   | 20.05 |
| AJ  |       | 8.90   | 3.40   | 14.85 |
| AK  |       | 25.06  | 3.00   | 30.80 |
| AL  |       | 3.30   | 3.30   | 9.14  |
| AM  |       | 9.26   | 3.05   | 14.85 |
| AN  |       | 7.60   | 4.40   | 14.47 |
| AP  |       | 7.80   | 3.30   | 13.60 |
| AR  |       | 18.86  | 2.41   | 23.81 |
| AS  |       | 11.91  | 1.45   | 15.90 |
| AT  |       | 4.60   | 4.60   | 11.61 |
| AU  |       | 12.10  | 3.10   | 17.70 |
| AV  |       | 6.30   | 6.30   | 15.10 |
| AW  |       | 9.16   | 1.80   | 13.50 |

NOTE 7

NOTE 6

|             |          |     |          |                                       |           |            |                   |
|-------------|----------|-----|----------|---------------------------------------|-----------|------------|-------------------|
| mat'l. code |          |     |          | surface                               | tolerance | projection | product family    |
| ltr         | ecn no   | dr  | date     | ISO 1302                              | ISO 406   | ISO 1101   | BERGSTIK          |
| BU          | B-20596  | AMA | 15.03.30 | tolerances unless otherwise specified |           |            | title             |
|             |          |     |          | angles                                | linear    | mm         | UNSHR.HEADER      |
| BN          | B-18876  | LMU | 14.09.23 |                                       |           | scale N/A  | STR SR TMT        |
| BP          | B-18917  | LMU | 14.09.26 | dr                                    | D.LE      |            | dwg no            |
| BR          | B-19692  | JCO | 14.12.09 | engr                                  | JM.C      |            | sheet 2 of - size |
| BS          | B-20169  | BVE | 15.02.12 | chr                                   | JM.C      |            | 77311 A3          |
| BT          | B-20497  | BVE | 15.03.18 | appd                                  | JF.N      |            | type              |
| sheet       | revision |     |          |                                       |           |            | CUSTOMER Drawing  |
| index       | sheet    |     |          |                                       |           |            |                   |