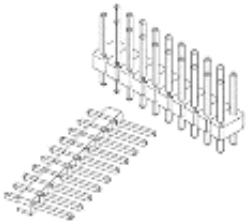
77311-118-02LF - BergStik® : Unshrouded Header, Through Hole, Single Row, 2 Positions, 2.54 mm Pitch, Vertical, 5.84 mm (0.23 in.) Mating, 3.05 mm (0.12 in.) Tail



FCI-Smarter Service

RoHS compatible

www.fci.com

Mating Half

- 75915-302LF
- 76341-302LF
- 91601-302LF
- 71607-302LF

Specifications

General	
Number of contacts (per row)	2
Number of contacts (Total)	2
Number of rows	1
Orientation	Vertical
Packaging	Bulk Packaging
Attachment type (Board)	Through Hole
Series Number	77311
Dimensional	
Length (Mating pin)	5.84 mm (0.23 in.)
Length (Overall pin)	11.43 mm (0.45 in.)
Length (Tail)	3.05 mm (0.12 in.)
Electrical	
Current rating	3 amp Continuous
Resistance (Insulation)	5000 M-ohms
Voltage rating	1500V AC rms
Mechanical	
Retention force	8.88N (2 lbf)
Mounting	
Retention feature (Board)	No
Solder process	Vapor-phase IR Reflow Soldering Processes Compatible with Wave

Physical

Color (Housing)	Black
Material (Contact)	Phospor Bronze
Material (Housing)	High Temperature Black Thermoplastic
Plating (Contact area)	0.76 µm (30 µin.) Gold
Plating (Tail)	Tin
Underplating (Contact)	1.27 µm (50 µin.) Nickel
Flammability rating	UL 94 V-0
Temperature (Range)	-65°C to +125°C

Approvals / Certifications

UL File Number	E66906
CSA File Number	LR46923
Approvals / Certifications	UL and CSA Approved

Other Features

Comments	Sample Kit 950501-016
Literature	950559-001

PRODUCT NUMBER

77311−YXX−XXLF

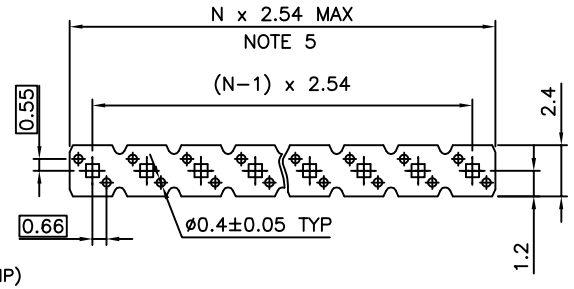
- PLATING SEE SHEET 2
- PIN STYLE SEE SHEET 2
- OPTION LETTER SEE NOTE 7
- TOTAL NB OF POSITIONS 01 TO 36
- WHEN REQUIRED, ADD SUFFIX LETTER "LF" INDICATES THE PRODUCT IS RoHS COMPATIBLE, SEE NOTE 6

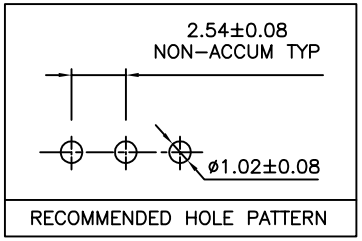
PRODUCT NUMBER (BERGSTRIP PACKAGING)

77311−YXX−00LF

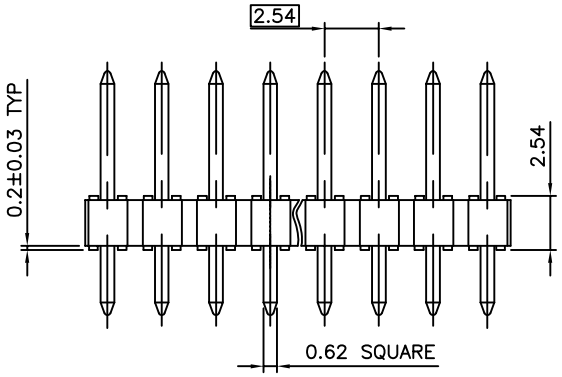
- PLATING
  - 1= 0.76µm GOLD/GXT ON CONTACT AREA, 2µm TIN MIN ON TAILS
  - 8= 0.38µm GOLD/GXT ON CONTACT AREA, 2µm TIN MIN ON TAILS
  - 4= 2.0µm TIN MIN FULL PLATED
  - 1.27µm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS
- POSITIONS PER REEL : 00=36,000 (BERGSTRIP)
- INDICATES THE PRODUCT IS RoHS COMPATIBLE, SEE NOTE 6

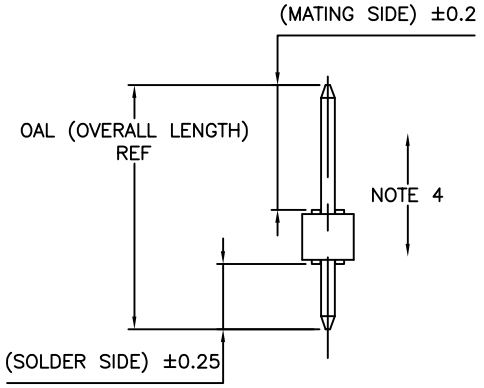
PIN STYLE	MATING	SOLDER	OAL
01	5.84	2.41	10.8
02	5.84	3.42	11.8
18	5.84	3.05	11.43
22	7.75	3.05	13.35
24	6.75	2.9	12.2
27	6.6	2.66	11.8





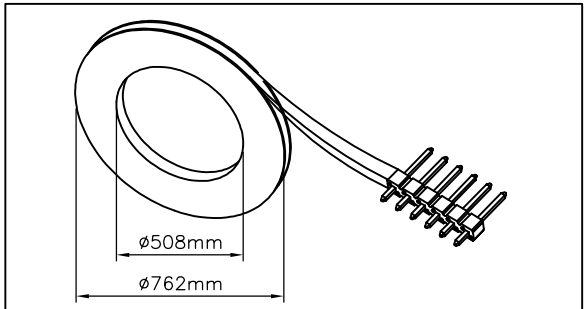
RECOMMENDED HOLE PATTERN





NOTES:

1. HOUSING MAT'L : HIGH TEMPERATURE THERMOPLASTIC. UL94V−0 COLOR: BLACK
2. PIN MATERIAL : PHOSPHOR BRONZE
3. BERGSTIK PRODUCT PACKAGED IN POLY BAGS. BERGSTRIP PRODUCT PACKAGED PER REELS.
4. 9N MIN RETENTION IN EITHER DIRECTION
5. 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−22−008
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)
   - C = HIGHT RETENTION FEATURES, SEE SHEET 2
   - R = RETENTION FEATURES, SEE SHEET 2
     IF RENTENTION FEATURE "R" AND TUBE PACKAGING "T" ARE BOTH REQUIRED
     OPTIONAL LETTER "R" WILL APPEAR INSTEAD OF THE FIRST DASH
     EXAMPLE : 77311R424T03LF



BERGSTRIP HEADER REEL PACKAGING DIMENSIONS

ltr	ecn no	dr	date
BP	F11−0320	LMU	12.01.25
BR	F12−0032	LMU	12.05.04
BS	F12−0816	LMU	12.10.18
BL	F10−0091	LMU	11.05.23
BM	F11−0074	JCO	11.06.20
BN	F11−0307	LMU	11.09.26

sheet index	revision	BS	BJ
	sheet	1	2

mat'l. code: SEE NOTES
surface: ISO 1302
tolerance: ISO 406 ISO 1101
tolerances unless otherwise specified: angles; linear .X ±0.3, .XX ±0.15, .XXX ±0.05
projection
mm
scale 5:1
dr D.LE 01.01.24
engr JM.C 01.01.24
chr JM.C 01.01.24
appd JF.N 01.01.24

product family: BERGSTIK
title: UNSHR.HEADER STR SR TMT
dwg no 77311
sheet 1 of 2
size A3
type CUSTOMER Drawing

form: A3

PDM: Rev:BS STATUS: Released Printed: Oct 25, 2012

PLATING

1 = 0.76µm GOLD/GXT ON CONTACT AREA 3.81µm TIN–LEAD ON TAIL

4 = 3.81µm TIN–LEAD ON CONTACT AREA 3.81µm TIN–LEAD ON TAIL

8 = 0.38µm GOLD/GXT ON CONTACT AREA 3.81µm TIN–LEAD ON TAIL

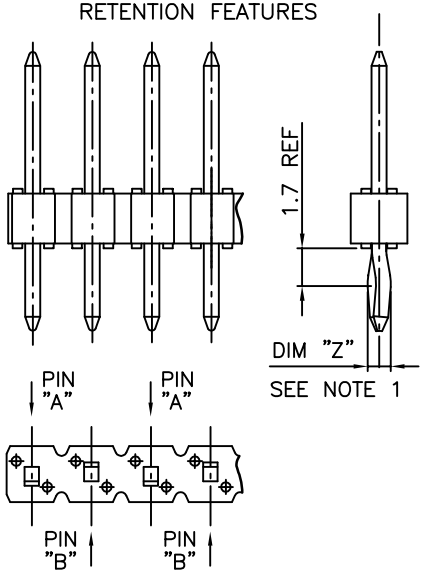
G = 0.76µm FULL GXT

S = 0.38µm FULL GXT

– 1.27µm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS

– WHEN "LF" IS REQUIRED, 2µm MATTE TIN OVER 1.27µm MIN NICKEL PROVIDED INSTEAD OF TIN–LEAD

RETENTION FEATURES



RETENTION FEATURES :

1 – PART NUMBER 77311–XXXRXXLF: DIM "Z"=(0.99)
PART NUMBER 77311–XXXCXXLF: DIM "Z"= 1.05MIN –1.15MAX

2 – PINS "A" AND "B" USED FOR RETENTION.

3 – DIRECTION OF RETENTION SHOWN BY ARROWS.

4 – ON 4 TO 36 POSITIONS HEADER; RETENTION IS IN MID POSITION OF HEADER (4 CENTRAL PINS)

5 – FOR RETENTION OPTION , SOLDER TAIL LENGTH TO BE 2.9 MIN UP TO 3.5 MAX.

PLATING SPECIFICATIONS :

6 – 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

PRODUCTS SPECIFICATIONS				
PIN STYLE	MATING	SOLDER	OAL	
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	
92	5.65	12.76	20.95	
93	6.00	4.81	13.35	
94	15.60	3.20	21.25	NOTE 6
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	14.8	

ltr	ecn no	dr	date
BD	F10–0091	LMU	11.05.23
BE	F11–0074	JCO	11.06.20
BF	F11–0307	LMU	11.09.26
BG	F11–0320	LMU	12.01.25
BH	F12–0032	LMU	12.05.04
BJ	F12–0816	LMU	12.10.18

mat'l. code

surface ISO 1302

tolerance ISO 406 ISO 1101

tolerances unless otherwise specified

angles

linear

projection

mm

scale N/A

dr	D.LE	01.01.24
engr	JM.C	01.01.24
chr	JM.C	01.01.24
appd	JF.N	01.01.24

product family: BERGSTIK

title: UNSHR.HEADER STR SR TMT

dwg no: 77311

sheet 2 of –

size: A3

type: CUSTOMER Drawing

sheet index | revision sheet

form: A3

PDM: Rev:BS

STATUS: Released

Printed: Oct 25, 2012