

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 SHEET 2

PRODUCT NUMBER (BERGSTRIK PACKAGING)
77311-YXX-OOLF

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

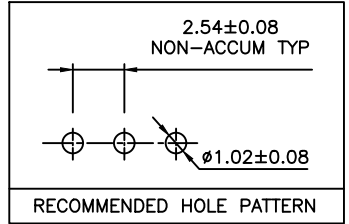
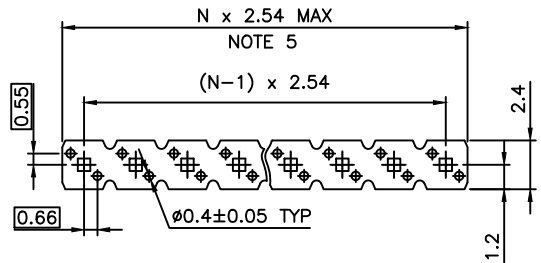
4= 2.0µm TIN MIN FULL PLATED

1.27µm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS

INDICATES THE PRODUCT IS RoHS COMPATIBLE, SEE NOTE 6

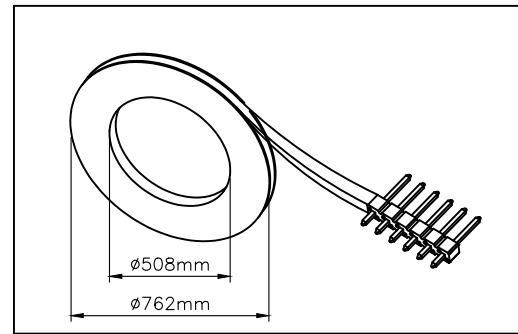
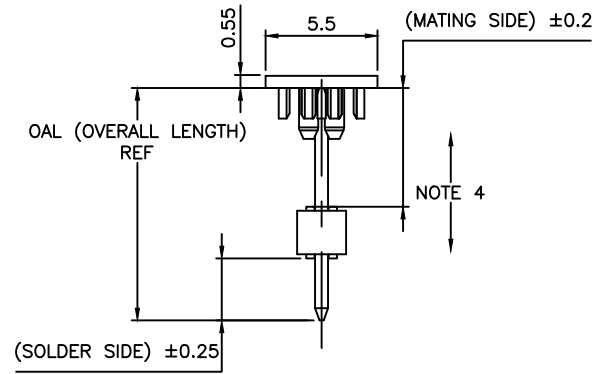
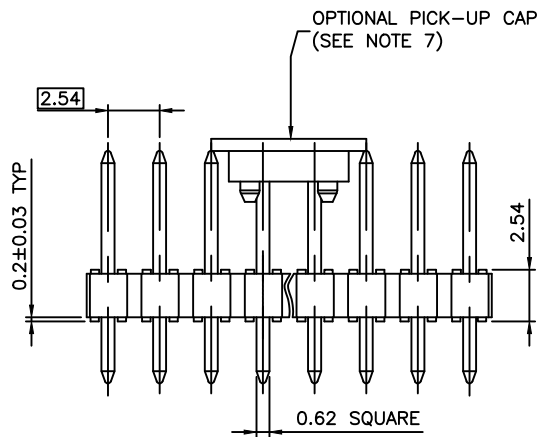
POSITIONS PER REEL : 00=36,000 (BERGSTRIK)

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
 - 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



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		mm		title	
CW	F-38159	DDE	20.08.26	angles	linear	mm		UNSHR.HEADER	
CX	F-39392	DDE	20.12.18			scale 5:1		STR SR TMT	
CY	F-39850	DDE	22.01.13					dwg no	
				dr	D.LE	01.01.24	sheet 1 of 3		size
				enrg	JM.C	01.01.24	77311		A3
				chr	JM.C	01.01.24	type		CUSTOMER
				appd	JF.N	01.01.24	Drawing		
sheet	revision	CY	CA	N					
index	sheet	1	2	3					

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OPTIONS : - = POLYBAG PACKAGING

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

A = TAPE & REEL PACKAGING, WITH PICK UP CAP. AS AVAILABLE

KC = TAPE & REEL PACKAGING WITHOUT PICK UP CAP AND WITH HIGH RETENTION FEATURES

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

AV = TAPE & REEL PACKAGING WITH PICK UP CAP FOR CUSTOMER DEDICATED PART

C = HIGH RETENTION FEATURES, SEE SHEET 2

V = BLIBOX PACKAGING FOR CUSTOMER DEDICATED PART. ONLY FOR 77311-4BNV01LF

R = RETENTION FEATURES, SEE BELOW
IF RETENTION FEATURE "R" AND TUBE PACKAGING "T" ARE BOTH REQUIRED

OPTIONAL LETTER "R" WILL APPEAR INSTEAD OF THE FIRST DASH

EXAMPLE : 77311R424T03LF

RETENTION FEATURES :

1 - PART NUMBER 77311-XXXXXXLF: DIM "Z"=(0.99)
PART NUMBER 77311-XXXXCXXLF: 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.

6 - HOUSING MATERIAL FOR P/N 77311-4AJC03LF & 77311-TAJC03LF
HIGH TEMPERATURE THERMOPLASTIC UL94V-0 COLOR : NATURAL

PLATING SPECIFICATIONS :

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

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

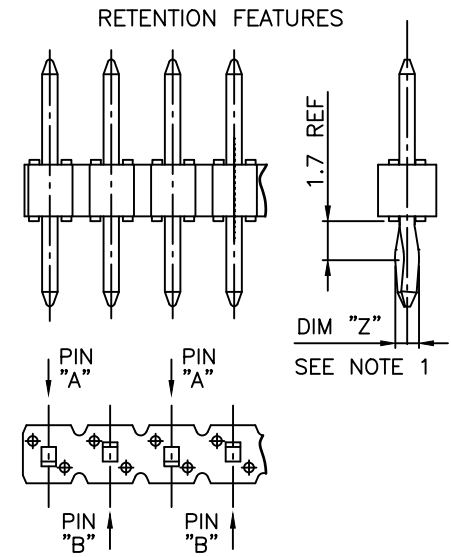
8 = 0.38µm GOLD/GXT ON CONTACT AREA, 2µm TIN MIN ON TAIL

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



mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection mm		product family BERGSTIK			
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm		title UNSHR.HEADER STR SR TMT			
BU	B-20596	AMA	15.03.30	angles		linear		scale N/A		dwg no		sheet 2 of 3	size
BV	F-22085	LMU	15.10.05							77311		A3	
BW	F-22100	AMA	15.10.08							type		CUSTOMER Drawing	
BX	F-26241	LMU	17.03.01	dr	D.LE	01.01.24							
BY	F-39392	DDE	20.12.18	enr	JM.C	01.01.24							
CA	F-39850	DDE	23.01.13	chr	JM.C	01.01.24							
				appd	JF.N	01.01.24							
sheet index		revision sheet											

1

2 | 3

4 |

5

6

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
11		5.72	5.94	14.20
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
54		8.08	3.81	14.43
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
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	2.79	

PRODUCTS SPECIFICATIONS

PIN	STYLE	MATING	SOLDER	OAL
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
AX		5.08	2.43	10.05
AY		7.49	3.47	13.50
BA		8.08	2.75	13.37
BB		10.80	2.15	15.50
BC		8.08	3.81	14.43
BD		10.10	2.16	14.80
BE		13.65	2.41	18.60
BF		2.54	5.32	10.40
BG		4.98	1.85	9.23
BH		4.69	2.41	9.50
BJ		7.21	6.15	15.90
BK		6.86	2.65	12.05
BL		17.70	3.25	23.50
BM		10.96	3.70	16.20
BN		19.46	3.00	25.00
BP		8.80	3.20	14.50
BR		19.46	4.00	26.00
BS		5.72	11.05	19.30
BT		8.50	5.36	16.40
BU		3.80	3.80	10.14
BV		5.08	2.79	10.40
BW		7.36	2.30	12.20

NOTE 6

PRODUCTS SPECIFICATIONS

PIN	STYLE	MATING	SOLDER	OAL
BX		2.67	3.43	8.60
BY		11.90	3.05	17.50
CA		7.50	6.00	16.04
CB		16.50	2.60	21.64
CC		4.00	2.95	9.50

NOTE 7

mat'l. code			surface	tolerance	projection	product family		
			ISO 1302	ISO 406 ISO 1101		BERGSTIK		
ltr			ecn no	dr	date	title		
						UNSHR.HEADER STR SR TMT		
			tolerances unless otherwise specified			mm		
			angles	linear	scale N/A			
K	F-33636	LMU	19.05.22			dwg no		
L	F-35304	LMU	19.11.04	dr	A.MA	15.10.08	sheet 3 of 3	
M	F-38159	DDE	20.08.26	enrg	J.LMU	15.10.08	size	
N	F-39850	DDE	23.01.13	chr	J.CO	15.10.08	A3	
			appd	A.SO	15.10.08	Drawing		
sheet	revision							
index	sheet							



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