

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-OOLF

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=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.
- REFLOW COMPATIBLE

c - LABELING:

- MEETS PACKAGING SPECS AS PER GS-14-920

d - LEGAL STATEMENT: SEE GS-47-0004

7. OPTIONS : - = POLYBAG PACKAGING

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)

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

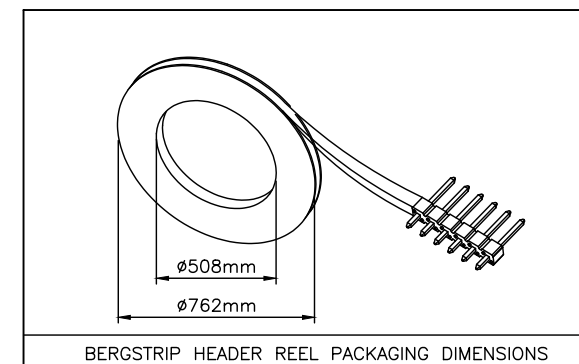
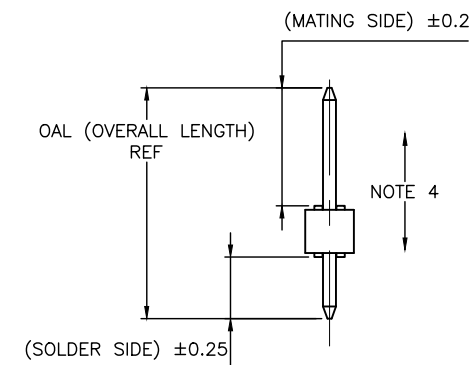
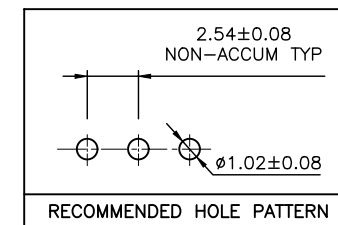
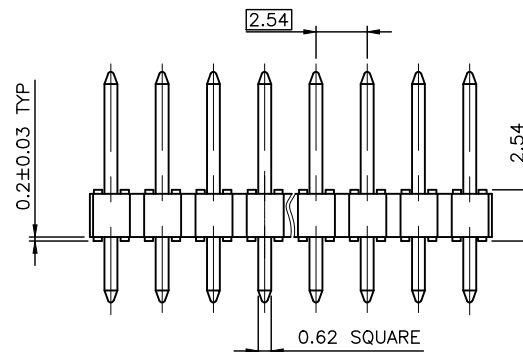
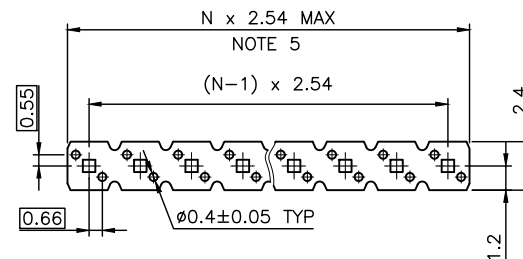
KV = TAPE & REEL PACKAGING WITHOUT PICK UP CAP FOR CUSTOMER DEDICATED PART
ONLY FOR P/N 77311-462K04(LF)

C = HIGH 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

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



mat'l. code				surface			tolerance		projection	product family		
SEE NOTES				ISO 1302	✓	ISO 406	ISO 1101	ISO 1101		BERGSTIK		
ltr	ecr	no	dr	date	tolerances unless otherwise specified				mm	title		
CN	F-26241	LMU	17.03.01		angles	linear	.X ±0.3			UNSHR.HEADER		
CP	F-28243	DDE	17.09.21				.XX ±0.15			STR SR TMT		
CR	F-28445	DDE	17.11.10				.XXX ±0.05		scale 5:1			
CS	F-29484	DDE	18.03.08	dr		D.LE	01.01.24			dwg no		
CT	F-31328	LMU	18.09.20	engr		JM.C	01.01.24			sheet 1 of 3 size		
				chr		JM.C	01.01.24			77311		
CM	F-25890	LMU	17.01.11	appd		JF.N	01.01.24			type CUSTOMER Drawing		
sheet	revision	CT	BX	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

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 :

1 - PART NUMBER 77311-XXXXXXLF: DIM "Z"=(0.99)
PART NUMBER 77311-XXXXXXLF: DIM "Z"= 1.05MIN -1.15MAX

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

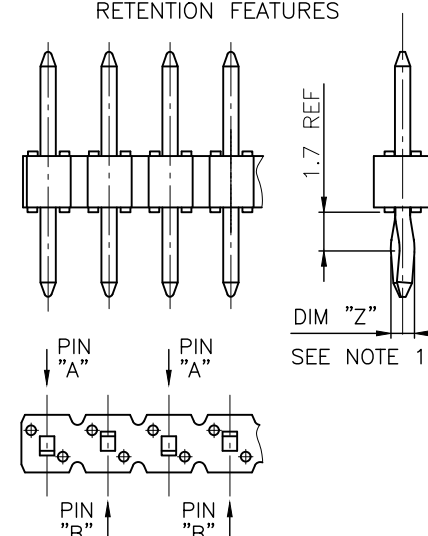
3 - DIRECTION OF RETENTION SHOWN BY ARROWS.

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

RETENTION FEATURES

DIM "Z"
SEE NOTE 1

mat'l. code				surface			tolerance		projection	product family		
ltr	ecn	no	dr	date	ISO 1302	ISO 406	ISO 1101	ISO 1101		BERGSTIK		
BU	B-20596	AMA		15.03.30	tolerances unless otherwise specified				mm	title		
BV	F-22085	LMU		15.10.05	angles	linear				UNSHR.HEADER		
BW	F-22100	AMA		15.10.08					scale N/A	STR SR TMT		
BX	F-26241	LMU		17.03.01	dr	D.LE		01.01.24	Amphenol FCI	dwg no		sheet 2 of 3
					engr	JM.C		01.01.24		77311		A3
BS	B-20169	BVE		15.02.12	chr	JM.C		01.01.24				
BT	B-20497	BVE		15.03.18	appd	JF.N		01.01.24		type CUSTOMER Drawing		
sheet index	revision	sheet										

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
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		

NOTE 7

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

NOTE 6

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK				
ltr	ecn no	dr	date	tolerances unless		otherwise specified				title UNSHR.HEADER STR SR TMT				
H	F-29484	DDE	18.03.08	angles		linear								
J	F-31328	LMU	18.09.20					scale N/A						
D	F-25890	LMU	17.01.11	dr	A.MA		15.10.08				dwg no		sheet 3 of 3	size
E	F-26241	LMU	17.03.01	enrg	L.MU		15.10.08				77311		A3	
F	F-28243	DDE	17.09.21	chr	J.CO		15.10.08							
G	F-28445	DDE	17.11.10	appd	A.SO		15.10.08							
sheet index		revision sheet												