

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

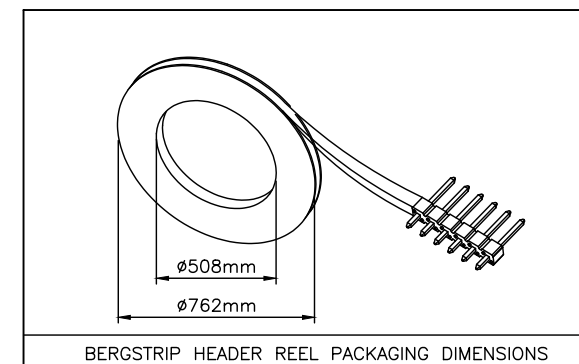
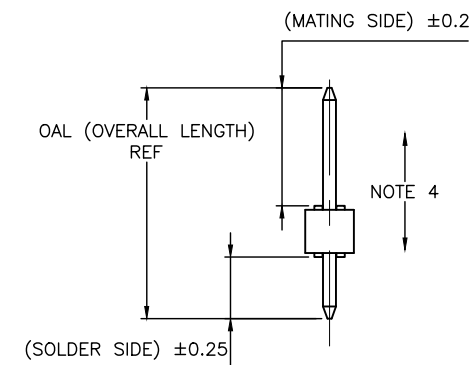
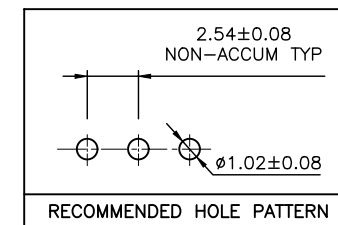
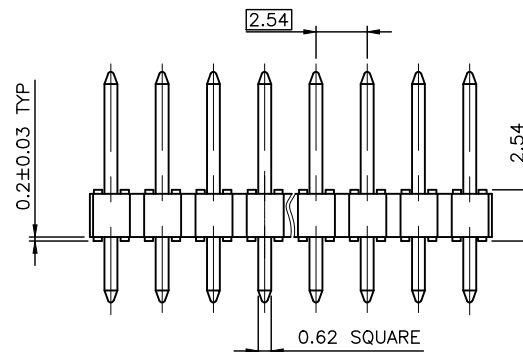
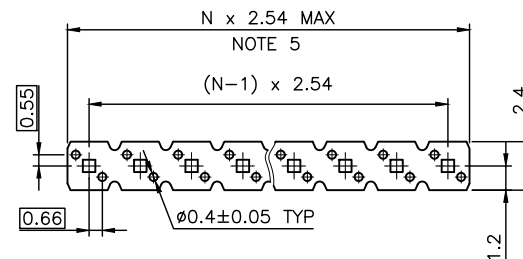
KV = TAPE & REEL PACKAGING WITHOUT PICK UP CAP FOR CUSTOMER DEDICATED PART
ONLY FOR P/N 77311-462K04(LF)

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	ecn	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			A3		
sheet	revision	CT	BX	J						type		
index	sheet	1	2	3						CUSTOMER Drawing		

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

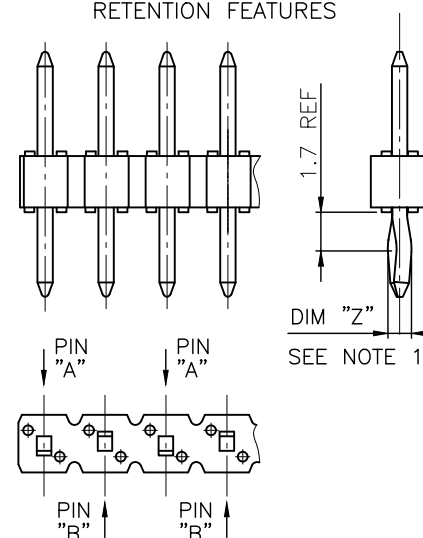
RETENTION FEATURES :

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

RETENTION FEATURES



mat'l. code				surface ☒ ISO 1302 ☒ ISO 406 ☐ ISO 1101		projection	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					
BV	F-22085	LMU	15.10.05				scale N/A			
BW	F-22100	AMA	15.10.08							
BX	F-26241	LMU	17.03.01	dr	D.LE	01.01.24	Amphenol FCI			
				engr	JM.C	01.01.24				
BS	B-20169	BVE	15.02.12	chr	JM.C	01.01.24	dwg no 77311 sheet 2 of 3 size A3			
BT	B-20497	BVE	15.03.18	appd	JF.N	01.01.24				
sheet index	revision sheet						type CUSTOMER Drawing			

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		

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

NOTE 7

mat'l. code				surface		tolerance		projection	product family			
				ISO 1302	✓	ISO 406	ISO 1101		BERGSTIK			
ltr	ecn no	dr	date	tolerances unless otherwise specified				mm	title			
H	F-29484	DDE	18.03.08	angles	linear				UNSHR.HEADER			
J	F-31328	LMU	18.09.20						STR SR TMT			
								scale	N/A			
D	F-25890	LMU	17.01.11	dr		A.MA	15.10.08	Amphenol FCI	dwg no		sheet 3 of 3	size
E	F-26241	LMU	17.03.01	engr		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		type		CUSTOMER	Drawing
sheet index	revision sheet											