

PRODUCT NUMBER
77311-YYY-XXLF

ROHS COMPATIBLE
SEE NOTE 6
TOTAL NB OF POSITIONS 01 TO 36
OPTION LETTER SEE NOTE 7

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

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

PLATING _____
1 = 0.76µm GOLD/6XT ON CONTACT AREA, 2µm TIN MIN ON TAILS
8 = 0.38µm GOLD/6XT ON CONTACT AREA, 2µm TIN MIN ON TAILS
4 = 2.0µm TIN MIN FULL PLATED
1.27µm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS

NOTES:

- HOUSING MAT'L : HIGH TEMPERATURE THERMOPLASTIC. U194V-0 COLOR: BLACK
- PIN MATERIAL : PHOSPHOR BRONZE
- BERGSTRIK 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-14-9220
d - LEGAL STATEMENT: SEE GS-47-0004

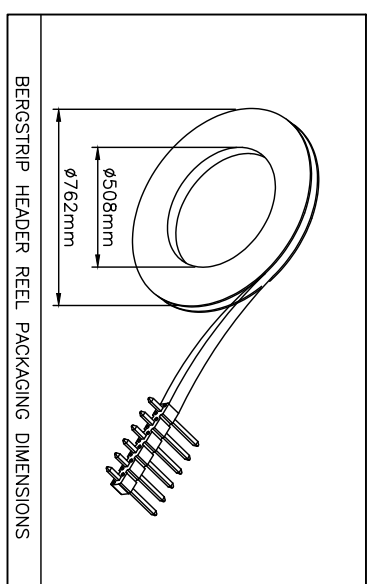
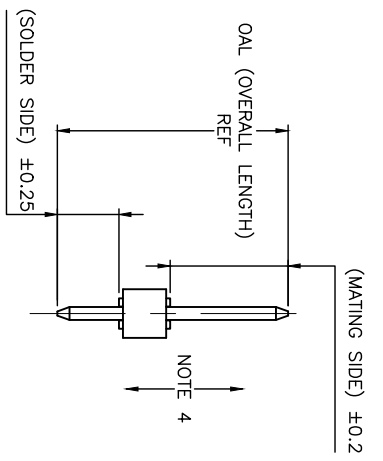
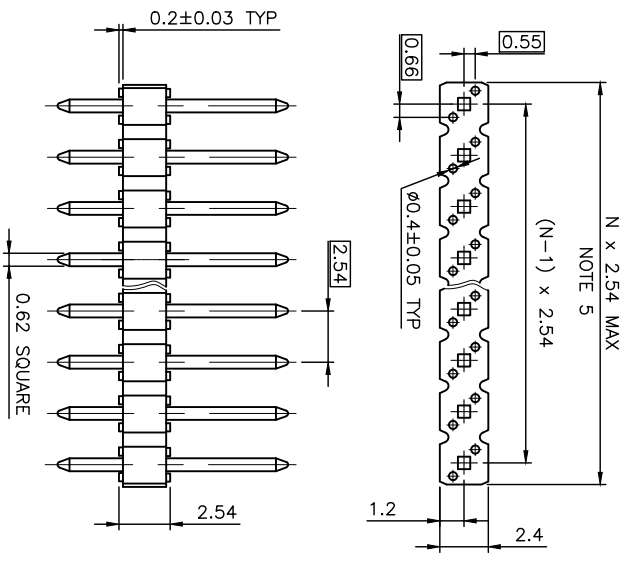
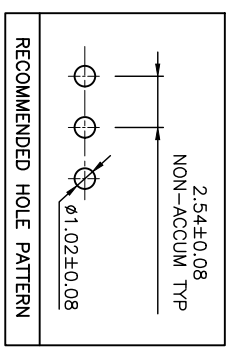
7. OPTIONS : - = POLYBAG PACKAGING
T = TUBE PACKAGING WITHOUT PICK UP CAP
K = TAPE & REEL PACKAGING, WITHOUT PICK UP CAP ONLY FOR P/N 77311-462K04(LF) AND 77311-462K05(LF)
KC = TAPE & REEL PACKAGING WITHOUT PICK UP CAP AND WITH HIGH RETENTION FEATURES
KV = TAPE & REEL PACKAGING WITHOUT PICK UP CAP FOR CUSTOMER DEDICATED PART ONLY FOR P/N 77311-462KV04(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 = BIBOX PACKAGING FOR CUSTOMER DEDICATED PART. ONLY FOR 77311-4BNV01LF

2 3

4

5

6



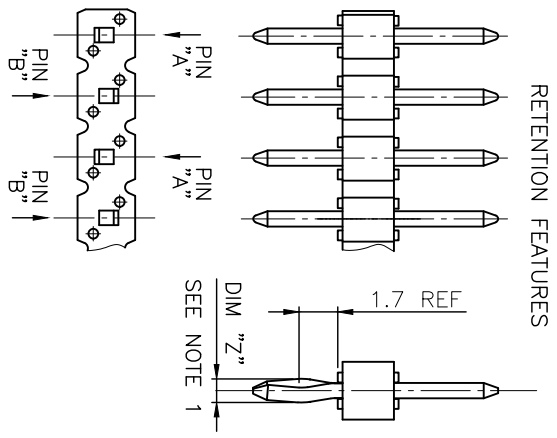
mat'l. code	SEE NOTES	surface	tolerance	projection	product family							
Ltr	ecn no	dr	date	ISO 1302	ISO 406	ISO 1001	tolerance unless otherwise specified	mm	scale	5:1	title	UNSHR. HEADER
CN	F-26241	LMU	17.03.01	angles	x ±0.3						STR SR TMT	
CP	F-28243	DDE	17.09.21	linear	.xx ±0.15						77311	
CR	F-28445	DDE	17.11.10	linear	.xxx ±0.05						CUSTOMER	
CS	F-29484	DDE	18.03.08	dr	D.L.E	01.01.24					sheet 1 of 3	
CT	F-31328	LMU	18.09.20	engf	J.M.C	01.01.24					A3	
CM	F-25890	LMU	17.01.11	qppd	J.F.N	01.01.24					Drawing	
Sheet	Revision	CT	BX	J								
Index	Sheet	1	2	3								

Copyright FCI
Amphenol FCI
FCIconnect.com
form A3
1 2
PDS Rev : CT
STATUS: Released Printed: Nov 28, 2018
5 6

- 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 77311-4AUC03LF & 77311-TAUC03LF 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



mat'l. code	surface	tolerance	projection	product family
	ISO 1302	ISO 406 ISO 1001	mm	BERGSTIK
ltr ecn no	dr	date	tolerances unless otherwise specified	title
BU B-20596/AMA	15.03.30		angles	UNSHR.HEADER
BV F-22085/LMU	15.10.05		linear	STR SR TMT
BW F-22100/AMA	15.10.08		scale N/A	
BX F-26241/LMU	17.03.01	dr	D.LE	01.01.24
		engr	JM.C	01.01.24
BS B-20169/BVE	15.02.12	chr	JM.C	01.01.24
BT B-20497/BVE	15.03.18	qppd	JF.N	01.01.24
sheet	revision			
index	sheet			
title UNSHR.HEADER STR SR TMT sheet 2 of 3 size A3				product family BERGSTIK

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
BU	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 1001		BERGSTIK
		tolerances unless otherwise specified		
ltr ecn no	dr	date	angles	linear
H F-29484 DDE	18.03.08			
J F-31328 LMU	18.09.20			
D F-25890 LMU	17.01.11	dr	AMA	15.10.08
E F-26241 LMU	17.03.01	eng	LMU	15.10.08
F F-28243 DDE	17.09.21	chr	JCO	15.10.08
G F-28445 DDE	17.11.10	qppd	ASO	15.10.08
Sheet	revision			
index	sheet			
title		product family		
UNSHR.HEADER		BERGSTIK		
STR SR TMT				
dwg no	77311	sheet 3 of 3	size	A3
type	CUSTOMER	Drawing		