

PRODUCT NUMBER
77313-YYX-XXLF

PLATING SEE SHEET 2

PIN STYLE SEE SHEET 2

RoHS COMPATIBLE
SEE NOTE 7
TOTAL NB OF POSITIONS 04 TO 72
OPTION LETTERS : NOTE 8

PRODUCT NUMBER (BERGSTRIK PACKAGING)
77313-YYX-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

INDICATES THE PRODUCT IS RoHS
COMPATIBLE, SEE NOTE 6

POSITIONS PER REEL : 00=45,000 (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:

1. HOUSING MAT'L : HIGH TEMPERATURE
THERMOPLASTIC. UL94V-0 COLOR: BLACK

2. PIN MATERIAL : PHOSPHOR BRONZE

3. BERGSTIK PRODUCT PACKAGED IN POLY BAGS.
BERGSTRIK 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. FOR PIN IN PASTE SOLDERING APPLICATION :
FINISHED PLATED HOLE Ø1.02-Ø1.06
LAND Ø1.45 MAX

7. 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

8. OPTIONS :

- = POLYBAG PACK

"A" = TAPE & REEL WITH CAP, AS AVAILABLE

"T" = STANDARD TUBE PACKAGING - ONLY AVAILABLE UPON REQUEST

"V" = BLIBOX PACK FOR CUSTOMER DEDICATED PART

"AV" = TAPE & REEL WITH CAP FOR CUSTOMER DEDICATED PART

"KV" = TAPE & REEL WITHOUT CAP FOR CUSTOMER DEDICATED PART

"TV" = TUBE WITHOUT CAP FOR CUSTOMER DEDICATED PART

"R" = RETENTION FEATURE PAGE 2

IF RETENTION FEATURE "R" AND TUBE PACKAGING "T" ARE BOTH REQUIRED
OPTIONAL LETTER "R" WILL APPEAR INSTEAD OF THE FIRST DASH

EXAMPLE : 77313R118T40LF

"KR" = T&R WITHOUT CAP WITH RETENTION FEATURE

"ERP" = POLYBAG PACKAGING FOR DEDICATED CUSTOMER, WITH SPECIFIC LABEL

Ø0.4±0.05 TYP

1.14 REF

0.2±0.03 TYP

N x 2.54 MAX

NOTE 5

(N-1) x 2.54

4.83

0.48

0.66

SEE TABLE

2.54

SEE TABLE

TOLERANCE "Z" DEPEND UPON
PIN MATING AND SOLDER LENGTHS

MATING/SOLDER LENGTH	ØZ	MATING/SOLDER LENGTH	ØZ
UP TO 10mm	Ø0.4	UP TO 14mm	Ø0.45
UP TO 18mm	Ø0.5	UP TO 22mm	Ø0.55
UP TO 26mm	Ø0.6	OVER 26mm	Ø0.65

(MATING SIDE) ±0.2

(SOLDER SIDE)±0.25

2.54±0.08
NON-ACCUM TYP

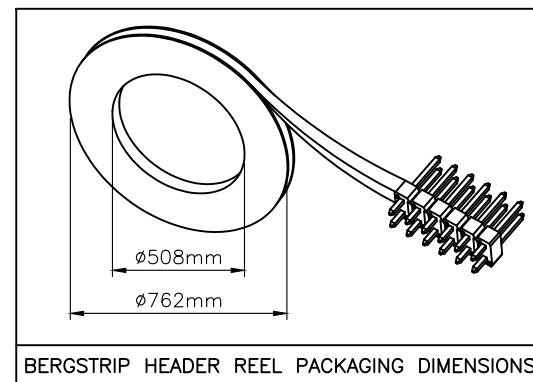
2.54±0.08

Ø1.02±0.08

RECOMMENDED HOLE PATTERN
SEE NOTE 6

NOTE 4

OAL (OVERALL LENGTH)
REF



BERGSTRIK HEADER REEL PACKAGING DIMENSIONS

mat'l. code				surface			tolerance		projection	product family		
SEE NOTES				ISO 1302	ISO 406	ISO 1101	ISO 406	ISO 1101		BERGSTIK		
ltr	ecn no	dr	date	tolerances unless otherwise specified			.X ±0.3	.XX ±0.15	mm	title		
CP	F-52796	DDE	24.09.04	angles	linear					UNSHR.HEADER STR DR TMT		
CJ	F-45578	DDE	22.08.05				.XXX ±0.05		scale 5:1			
CK	F-47089	DDE	23.01.23	dr	D.LE	01.01.24						
CL	F-47115	DDE	23.01.25	engr	JM.C	01.01.24						
CM	F-48329	DDE	23.05.23	chr	JM.C	01.01.24						
CN	F-49596	DDE	23.10.27	appd	JCO	01.01.24						
sheet	revision	CP	BM	J								
index	sheet	1	2	3								

STATUS:Released Printed: Sep 05, 2024

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

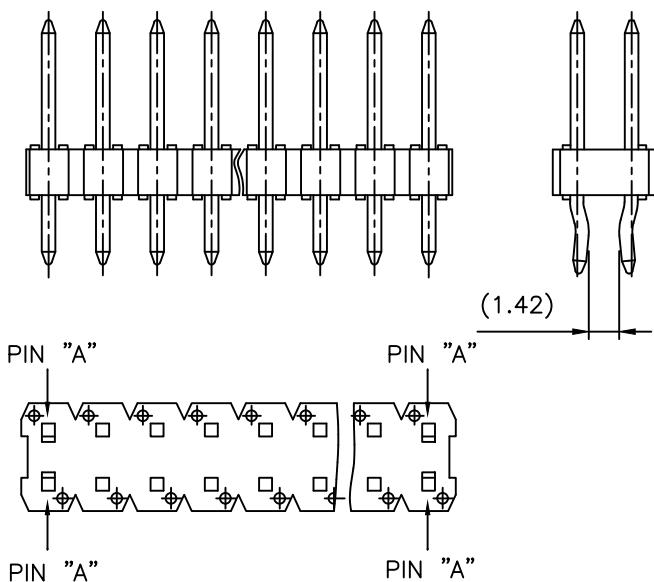
G = 0.76µm FULL GXT

S = 0.38µm FULL GXT

T = 2µm TIN MIN FULL PLATED INCLUDED PIN TYP

- 1.27µm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS

RETENTION OPTION



NOTES:

- PART NUMBER 77313-YXXRXXLF
- 4 PINS "A" USED FOR RETENTION
DIRECTION OF RETENTION SHOWN BY ARROWS
PIN "A" AT EACH END OF HEADER.
- FOR RETENTION OPTION , SOLDER TAIL LENGTH TO BE
2.9 MIN UP TO 3.5 MAX.

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
04		5.72	7.64	15.90
05		5.72	10.14	18.40
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
27		6.6	2.65	11.8
29		17.46	3.50	23.5
38		5.84	3.82	12.20
46		8.08	2.98	13.6
52		9.5	3.05	15.09
57		8.46	3.05	14.05
58		14.47	3.05	20.06
83		20.46	3.0	26.0
85		10.5	2.9	15.9
87		6.98	3.05	12.57

PRODUCTS SPECIFICATIONS

PIN	STYLE	MATING	SOLDER	OAL
89		6.93	5.00	14.47
90		6.75	4.05	13.34
91		5.60	10.21	18.4
92		5.65	12.76	20.95
93		6.00	4.81	13.35
94		9.65	2.90	15.09
95		8.90	3.60	15.09
96		20.83	3.05	26.42
97		14.70	3.70	20.95
98		6.00	6.00	14.47
99		8.05	2.25	12.8
AA		11.90	3.30	17.70
AB		7.00	1.50	11.00
AC		N/A		
AD		8.51	10.59	21.64
AE		3.30	3.30	9.14
AF		N/A		
AG		4.79	3.00	10.33
AH		2.67	3.43	8.64
AJ		8.00	8.00	18.54
AK		7.00	7.00	16.54
AL		5.90	1.60	10.05
AM		12.06	2.60	17.20
AN		11.50	1.90	15.94
AP		14.00	2.20	18.70
AR		8.96	2.10	13.60
AS		8.08	2.72	13.37

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			title
BM	F-47089	DDE	23.01.23	angles	linear	mm	UNSHR.HEADER
BG	B-20321	AMA	15.01.26			scale N/A	STR DR TMT
BH	B-20596	AMA	15.03.30	dr	D.LE	01.01.24	dwg no
BJ	F-21455	AMA	15.07.20	engr	JM.C	01.01.24	sheet 2 of -
BK	F-22605	BVE	15.11.24	chr	JM.C	01.01.24	size
BL	F-45578	DDE	22.08.05	appd	JF.N	01.01.24	A3
sheet	revision						type
index	sheet						CUSTOMER Drawing



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PRODUCTS SPECIFICATIONS				
PIN	STYLE	MATING	SOLDER	OAL
AT		5.84	7.20	15.57
AU		10.95	3.05	16.55
AV		8.08	4.32	14.96
AW		8.08	3.81	14.43
AX		6.40	3.09	12.05
AY		5.08	2.79	10.40
BA		8.97	2.79	14.05
BB		6.48	3.05	12.05
BC		11.85	4.04	18.40
BD		26.00	3.05	31.55
BE		9.08	1.90	13.52
BF		9.90	2.65	15.09
BG		9.50	3.25	15.29
BH		5.72	16.14	24.40
BJ		4.00	2.69	9.23
BK		10.50	3.20	16.24
BL		18.29	3.05	23.88
BM		10.00	2.54	14.84
BN		13.21	3.00	18.75
BP		28.00	4.00	34.50
BR		16.60	2.90	22.04
BS		6.75	6.75	16.00
BT		15.76	3.50	21.80
BU		20.76	3.50	26.80
BV		11.85	2.36	16.75

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			
H	F-48329	DDE	23.05.23	angles	linear			mm	UNSHR.HEADER STR DR TMT			
J	F-49596	DDE	23.10.27					scale N/A				
D	F-33925	LMU	19.06.14	dr		D.LE	01.01.24		dwg no		sheet 3 of -	size
E	F-40035	DDE	21.02.17	engr		JM.C	01.01.24		77313			A3
F	F-45578	DDE	22.08.05	chr		JM.C	01.01.24					
G	F-47089	DDE	23.01.23	appd		JF.N	01.01.24		type		CUSTOMER	Drawing
sheet index		revision		sheet								