

WE RECOMMEND THESE CONNECTORS FOR OPTIMAL SERVICE LEVEL



- SHORT LEAD-TIMES
- LOW MOQs
- QUICK SAMPLING
- AVAILABLE AT DISTRIBUTION



77313-101-04LF	77313-118-04LF
77313-101-06LF	77313-118-06LF
77313-101-08LF	77313-118-08LF
77313-101-10LF	77313-118-10LF
77313-101-12LF	77313-118-12LF
77313-101-14LF	77313-118-14LF
77313-101-16LF	77313-118-16LF
77313-101-18LF	77313-118-18LF
77313-101-20LF	77313-118-20LF

PLATING
1 = 0.76µm GOLD/GXT ON CONTACT AREA
2µm TIN MIN ON TAIL
1.27µm Ni MIN UNDERLAYER

PIN STYLE
SEE SHEET 3

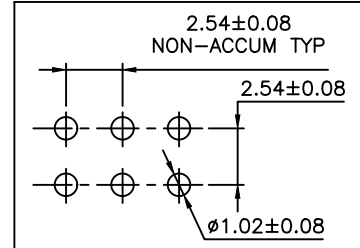
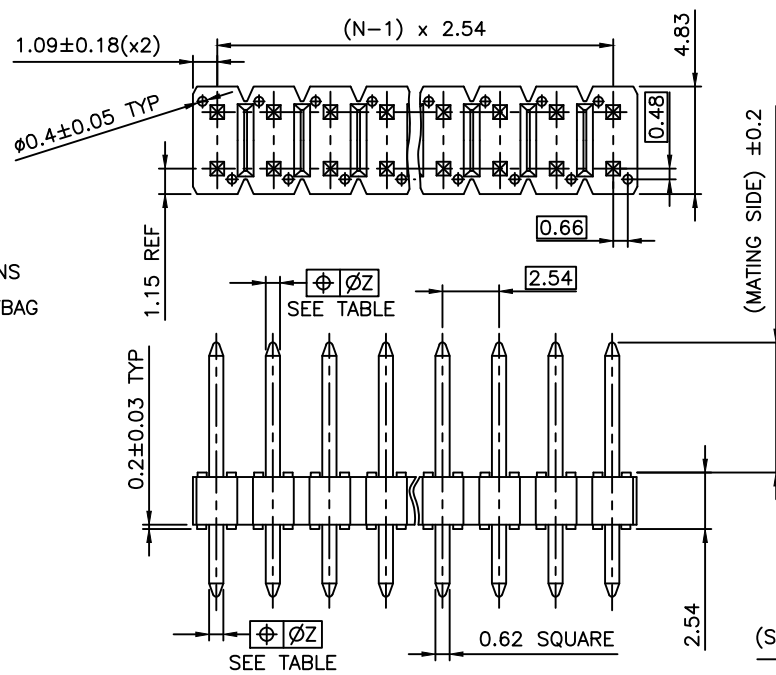
RoHS COMPATIBLE
SEE NOTE 7

TOTAL NB OF POSITIONS

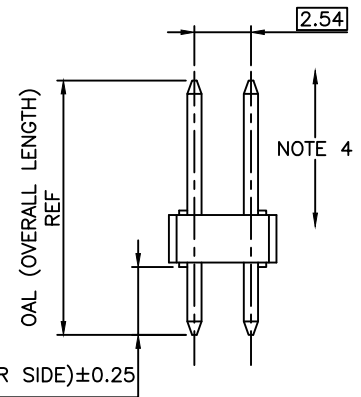
PACKAGING : - = POLYBAG

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, SEE SHEET 2
- 9N MIN RETENTION IN EITHER DIRECTION
- TO DETERMINE DIMENSIONS :
N = NUMBER OF POSITIONS PER ROW
EXAMPLE : 8 POS N x 2.54 = 20.32mm
- FOR PIN IN PASTE SOLDERING APPLICATION :
FINISHED PLATED HOLE Ø1.02-Ø1.06
LAND Ø1.45 MAX
- RoHS COMPATIBLE PRODUCT SPECIFICATIONS
 - PLATING:
 - "LF" MEANS THE PRODUCT IS LEAD-FREE, 2µm MINIMUM MATTE TIN OVER 1.27µm MINIMUM NICKEL UNDERPLATE
 - 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
 - LABELING:
 - MEETS PACKAGING SPECS AS PER GS-14-920
 - LEGAL STATEMENT: SEE GS-47-0004
- THIS PART SERIES IS NOT INITIALLY INTENDED FOR AUTOMOTIVE APPLICATIONS. ADDITIONAL FEES ARE CHARGEABLE FOR ANY ADDITIONAL QUALIFICATION AND TEST REPORTS PERFORMED OUTSIDE THE SCOPE OF THE STANDARD PRODUCT SPECIFICATIONS.
- UNLESS OTHERWISE APPROVED BY AMPHENOL, ALL PARTS AND COMPONENTS ARE DESIGNED & BUILT ACCORDING TO AMPHENOL'S SPECIFICATIONS WHICH ARE SUBJECT TO CHANGE WITHOUT NOTICE.



RECOMMENDED HOLE PATTERN
SEE NOTE 6



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

mat'l. code SEE NOTES				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK						
ltr	ecn no	dr	date	tolerances unless otherwise specified						 mm scale 5:1	title UNSHR.HEADER STR DR TMT					
CP	F-52796	DDE	24.09.04	angles	linear	.X ±0.3										
CR	F-54441	DDE	25.01.27			.XX ±0.15										
CS	F-55487	DDE	25.04.16			.XXX ±0.05										
				dr	D.LEGRAND		01.01.24		Amphenol FCI	dwg no		sheet 1 of 3		size		
CL	F-47115	DDE	23.01.25	enrg	J.COMPAGNON		01.01.24			77313		A3				
CM	F-48329	DDE	23.05.23	chr	J.COMPAGNON		01.01.24									
CN	F-49596	DDE	23.10.27	appd	J.COMPAGNON		01.01.24			type CUSTOMER Drawing						
sheet	revision	CS	BN	K												
index	sheet	1	2	3												

EXTENDED RANGE

PRODUCT NUMBER
77313-YXX-XXLF

PLATING, SEE BELOW
(AS AVAILABLE)

PIN STYLE, SEE SHEET 3
(AS AVAILABLE)

RoHS COMPATIBLE
SEE NOTE 7

TOTAL NB OF POSITIONS : 04 TO 72

OPTION LETTERS, SEE ON RIGHT
(MAY BE SUBJECT TO TOOLING FEES)

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 SHEET 4
- 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

PRODUCT NUMBER (BERGSTRIIP PACKAGING)
77313-YXX-00LF

PLATING

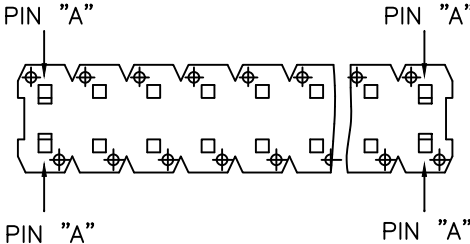
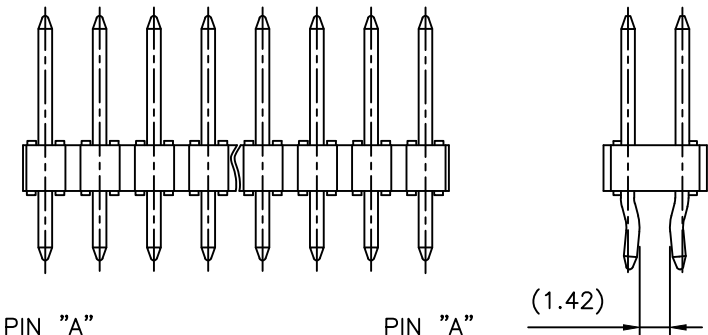
- 1= 0.76µm GOLD/GXT ON CONTACT AREA, 2µm TIN MIN ON TAILS
- 8= 0.38µm GOLD/GXT ON CONTACT AREA, 2µm TIN MIN ON TAILS
- 4= 2.0µm TIN MIN FULL PLATED
- 1.27µm NICKEL MIN UNDERLAYER FOR ALL PLATING VERSIONS

INDICATES THE PRODUCT IS RoHS
COMPATIBLE, SEE NOTE 7

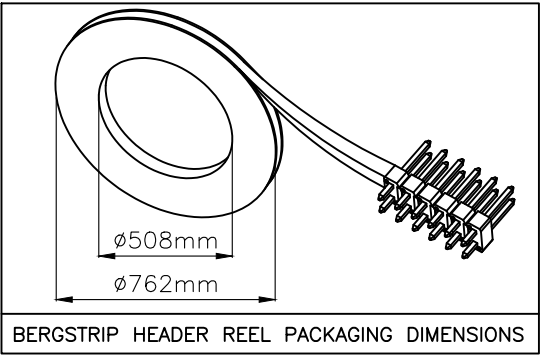
POSITIONS PER REEL : 00=45,000 (BERGSTRIIP)

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

RETENTION OPTION



- NOTES :
- 1. PART NUMBER 77313-YXXRXXLF
 - 2. 4 PINS "A" USED FOR RETENTION
DIRECTION OF RETENTION SHOWN BY ARROWS
PIN "A" AT EACH END OF HEADER.
 - 3. FOR RETENTION OPTION , SOLDER TAIL LENGTH TO BE
2.9 MIN UP TO 3.5 MAX.



mat'l. code				surface	tolerance	projection	product family		
				ISO 1302	ISO 406 ISO 1101		BERGSTIK		
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
BM	F-47089	DDE	23.01.23	angles	linear		UNSHR.HEADER		
BN	F-54441	DDE	25.01.27				STR DR TMT		
						scale N/A			
BH	B-20596	AMA	15.03.30	dr	D.LE	01.01.24	dwg no		
BJ	F-21455	AMA	15.07.20	enrg	JM.C	01.01.24	sheet 2 of -		
BK	F-22605	BVE	15.11.24	chr	JM.C	01.01.24	77313		
BL	F-45578	DDE	22.08.05	appd	JF.N	01.01.24	A3		
sheet				revision			type		
index				sheet			CUSTOMER Drawing		

Amphenol
FCI

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EXTENDED RANGE

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
	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

PRODUCTS SPECIFICATIONS				
PIN	STYLE	MATING	SOLDER	OAL
	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
	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

[illegible]

mat'l. code				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK					
ltr ecn no dr date				tolerances unless otherwise specified				 mm scale N/A		title UNSHR.HEADER STR DR TMT					
H F-48329 DDE		23.05.23		angles		linear									
J F-49596 DDE		23.10.27													
K F-54441 DDE		25.01.27													
				dr		D.LE		01.01.24		dwg no		sheet 3 of -		size	
E F-40035 DDE		21.02.17		enr		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							
sheet index		revision sheet								type		CUSTOMER		Drawing	

Mouser Electronics

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