

PRODUCT NUMBER

XXXXX-YYYH TLF

LEAD FREE OPTION
SEE NOTE 1,11TUBE PACKAGING OPTION
SEE NOTE 1HIGH TEMPERATURE PLASTIC
SEE NOTE 1NO. OF POSITIONS
SEE NOTE 1PIN PLATING
SEE SHEET 2

BASE PART NO.

PRODUCT NUMBER

69190-XXXXX HALF

LEAD FREE OPTION
SEE NOTE 1,11PACKAGING OPTION
SEE NOTE 1HIGH TEMPERATURE PLASTIC
SEE NOTE 1INDICATE DIFFERENT MATING LENGTH
AND TAIL LENGTHNO. OF POSITIONS
SEE NOTE 1PIN PLATING
SEE SHEET 2

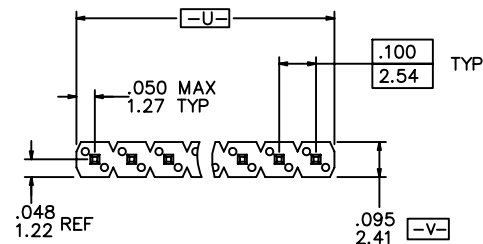
BASE PART NO.

⊕	∅	.020/.51	M	U	M	V	Ⓢ
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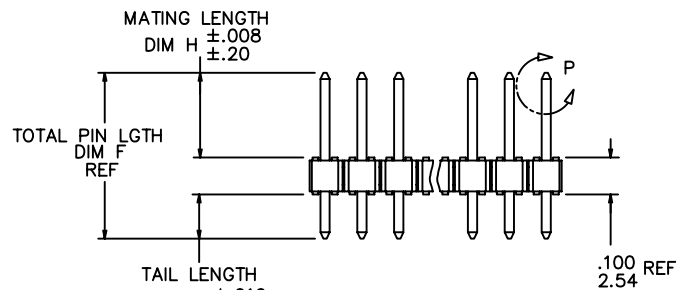
NOTE 4

 $\square .025 \pm .001$
 $0.64 \pm .03$ TYP

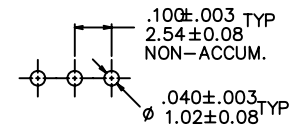
 $\square .013$
 0.33 MAX TYP

 $25^\circ \pm 5^\circ$ TYP
 4 SIDES
DETAIL P
TYP BOTH ENDS

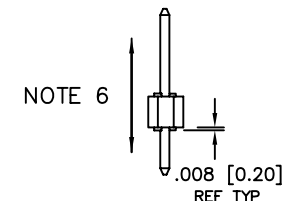
TOP VIEW



SIDE VIEW



RECOMMENDED HOLE PATTERN



END VIEW

mat'l. code NOTES 2 & 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101			product family BERGSTIK			
ltr	ecn	no	dr	date	tolerances unless otherwise specified				title			
AM	ELX-N-13674	DCS		2012-12-12	angles	linear	.004±.01/.004±.03	INCH/MM	BERGSTIK® II HEADER .100/2.54 SR SELF-RET			
AN	ELX-N-16105	ZK		2013-10-22			.0006±.005/.0006±.013					
AP	ELX-N-19414	HJ		2014-11-13			.0006±.0020/.0006±.0061					
					0'±.2'			scale 1:1				
				dr	D. WHITING	4/19/93			dwg no			
				engr	T.HANNA	4/19/93			sheet1 of 4 size			
				chr	T. BREWBAKER	4/19/93			69190			
				appd	T.HANNA	4/19/93			A3			
								type Product Customer Drawing				
sheet		revision		AP								
index		sheet		1-4								

PIN PLATING CODES:

XXXX-1YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-2YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-3YY	50u"/1.27u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-4YY	100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 13)
XXXX-4YYHLF	
XXXX-5YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-6YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-7YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-8YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-9YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni
XXXX-0YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN Ni

NOTES

1. PART NUMBER OPTIONS:

PIN PLATING CODES (SEE ABOVE)

HIGH TEMP. MATERIAL:

FOR HIGH-TEMPERATURE APPLICATIONS, SPECIFY AN "H" AT THE END OF THE PART NUMBER, AND PCT WILL BE SUPPLIED.

NUMBER OF POSITION:

ANY NUMBER OF POSITIONS FROM 2 THRU 36.

PACKAGING:

PACKAGED IN POLY BAGS.

EIGHT DIGIT PART NUMBERS FOLLOWED BY A "T" ARE PACKAGED IN TUBES. SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

EIGHT DIGIT PART NUMBERS FOLLOWED BY A "A" ARE PACKAGED IN TAPE AND REEL WITH PICKUP CAPS.

LEAD FREE:

ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION, NOT AVAILABLE FOR -5YY,-5YYH,-6YY & -6YYH.

2. BODY MATERIAL:

MANUFACTURER'S OPTION OF NYLON OR PCT, GLASS FIBER REINFORCED, FLAME RETARDENT PER UL-94V-0.

COLOR: BLACK. OR
MINERAL FILLED LCP, COLOR BLACK
FLAME RETARDENT PER UL-94V-0.

PART NUMBERS WITH "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260? PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

PART NUMBERS WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260? PEAK TEMPERATURE FOR WAVE SOLDER PROCESS.

3. PIN MATERIAL: PHOS-BRONZE.

4. MEASURED WITH PART IN RESTRAINED CONDITION.

5. TWO SIDES OF PIN TIPS NOT PLATED. TYPICAL BOTH ENDS.

6. 2LBS/0.9KG MIN PIN RETENTION IN EITHER DIRECTION.

7. ±.010/0.25 TOL APPLIES TO ALL 'G' TAILS EXCEPT INDICATED PARTS ON TABLE WHERE +.010/0.25 -.000/0.00 APPLIES.

8. DETAIL N DIMENSIONS APPLY TO 2 POSITION PARTS ONLY

9. SECTION R-R DIMENSIONS ONLY APPLY TO RETENTION.

PIN POSITIONS FOR 3 POSITION PARTS AND LARGER. RETENTION PIN POSITIONS LOCATED AT MANUFACTURER'S OPTION.

10. 5LB/2.3KG MAX INSERTION FORCE AND .25LB/.1KG MIN RETENTION FORCE PER RETENTIVE PIN USING .062/1.57 THICK CIRCUIT BOARDS AND RECOMMENDED HOLE PATTERN.

11. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.

12. PLATING OPTIONS:

PERFORMANCE PLATING WILL BE EITHER GOLD OR GXT ON POST OR TAIL, OPTIONALLY (78~295u")/2~7.5u) TIN ON TAIL.

13."THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family BERGSTIK		
ltr	ecn no	dr	date	angles	linear	INCH/MM scale 1:1	title BERGSTIK II HEADER .100/2.54 SR SELF-RET		
AP									
				0±2°					
				dr	D. WHITING	4/19/93	FCI		
				enr	T.HANNA	4/19/93			
				chr	T. BREWBAKER	4/19/93			
				app	T.HANNA	4/19/93			
sheet index	revision sheet						dwg no 69190		
							sheet2 of 4 size A3		
							type Product Customer Drawing		

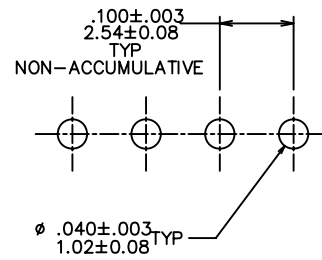
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2 3

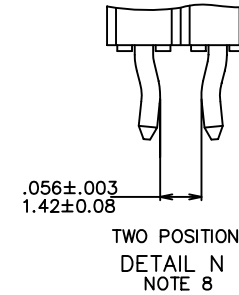
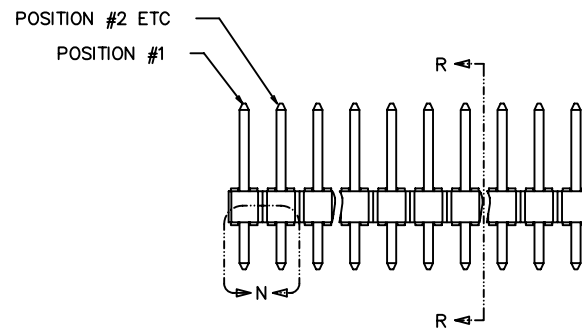
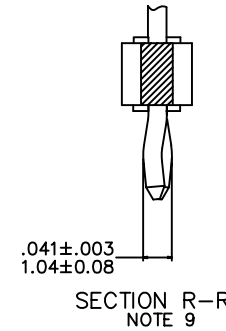
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5

6



RECOMMENDED HOLE PATTERN



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D

mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK		
ltr	ecn no	dr	date	tolerances unless otherwise specified			title		
AP				angles	linear	scale 1:1	BERGSTIK II HEADER .100/2.54 SR SELF-RET		
				0°±2°					
				dr	D. WHITING				
				enr	T.HANNA	4/19/93	dwg no 69190 type Product Customer Drawing		
				chr	T. BREWBAKER	4/19/93			
				app	T.HANNA	4/19/93			
sheet index	revision sheet								



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PRODUCT NUMBER	TOTAL PIN LENGTH		TAIL LENGTH		MATING LENGTH		PACKAGING	NOTE	LF OPTION
	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H			
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC			
69190-YYY	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	-	NOTE 1,11 OB ↓
72348-YYYH	0.515	13.08	0.120	3.05	0.295	7.49	POLY BAGS	-	
78229-YYY	0.538	13.67	0.120	3.05	0.318	8.08	POLY BAGS/TUBES	-	
78250-YYY	U N A V A I L A B L E							-	
78538-YYY	0.620	15.75	0.120	3.05	0.400	10.16	POLY BAGS	-	
78594-YYY	0.760	19.30	0.120	3.05	0.540	13.72	POLY BAGS	-	
79429-YYY	0.695	17.65	0.120	3.05	0.475	12.07	POLY BAGS	-	
79978-YYY	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	7	
86505-YYY	0.440	11.18	0.120	3.05	0.220	5.59	POLY BAGS	-	
87036-YYY	0.830	21.08	0.120	3.05	0.610	15.49	POLY BAGS	-	
87068-YYY	0.530	13.46	0.115	2.92	0.315	8.00	POLY BAGS	-	
87280-YYY	1.000	25.40	0.120	3.05	0.780	19.81	POLY BAGS	-	
87452-YYY	0.840	21.34	0.120	3.05	0.620	15.75	POLY BAGS	-	
87453-YYY	0.990	25.15	0.120	3.05	0.770	19.56	POLY BAGS	-	
87918-YYY	0.730	18.54	0.120	3.05	0.510	12.95	POLY BAGS	-	
90603-YYY	0.430	10.92	0.100	2.54	0.230	5.84	POLY BAGS	-	
90610-YYY	0.927	23.55	0.100	2.54	0.727	18.47	POLY BAGS	-	
94549-YYYH	0.415	10.54	0.085	2.16	0.230	5.84	POLY BAGS	-	
69190-YYY001HLF	0.425	10.80	0.095	2.41	0.230	5.84	POLY BAGS	-	
69190-YYY002HLF	0.378	9.59	0.120	3.05	0.157	4.00	POLY BAGS/TUBES	-	NOTE 1,11

mat'l. code				surface ☒ ISO 1302 ☐ tolerance ☒ ISO 406 ☐ ISO 1101		projection		product family BERGSTIK	
litr	ecn no	dr	date	tolerances unless otherwise specified		INCH/MM scale 1:1		title BERGSTIK II HEADER .100/2.54 SR SELF-RET	
AP				angles	linear				
				0±2°					
				dr	D. WHITING	4/19/93			
				enr	T.HANNA	4/19/93			
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