

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 H ALF

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

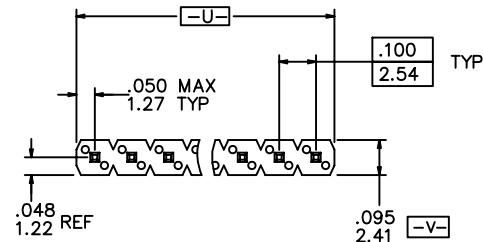
BASE PART NO.

⊕	∅	.020/.51	M	U	M	V	Ⓢ
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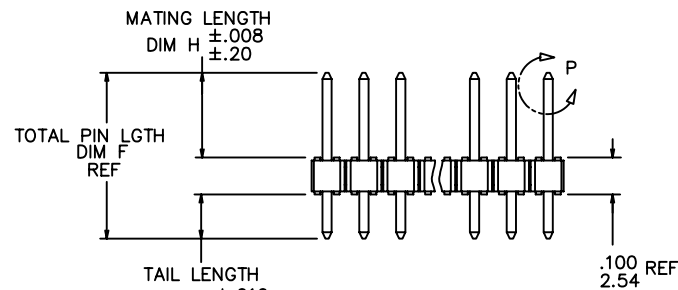
NOTE 4

□	.025±.001
□	0.64±.03 TYP

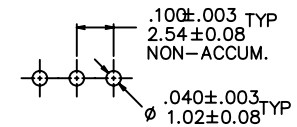
□	.013
□	0.33 MAX TYP

25°±5° TYP
4 SIDESDETAIL P
TYP BOTH ENDS

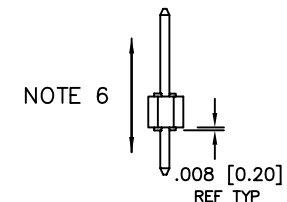
TOP VIEW



SIDE VIEW



RECOMMENDED HOLE PATTERN



END VIEW

mat'l. code NOTES 2 & 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK				
ltr	ecn	no	dr	date	tolerances unless otherwise specified					title				
AM	ELX-N-13674	DCS		2012-12-12	angles	linear	.XX±.01/.XX±0.3			BERGSTIK® II HEADER .100/2.54 SR SELF-RET				
AN	ELX-N-16105	ZK	2013-10-22	.XXX±.005/.XXX±0.13										
AP	ELX-N-19414	HJ	2014-11-13	.XXX±.0020/.XXX±0.051										
					0°±2°				scale 1:1		dwg no sheet1 of 4 size 69190 A3			
					dr	D. WHITING		4/19/93						
					engr	T.HANNA		4/19/93						
					chr	T. BREWBAKER		4/19/93		type Product Customer Drawing				
					appd	T.HANNA		4/19/93						
sheet index		revision sheet		AP	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			
				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		

1

2 3

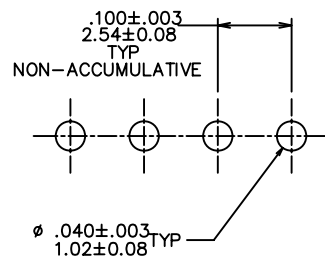
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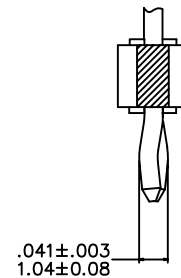
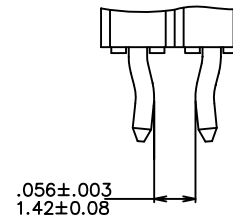
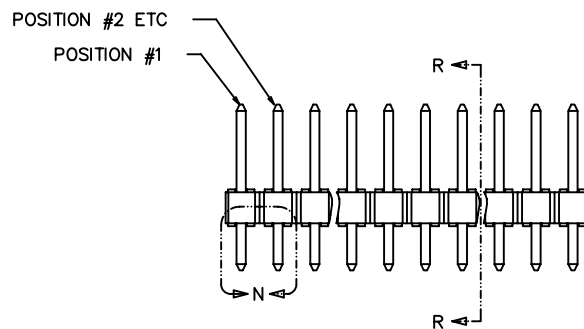
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A

A



RECOMMENDED HOLE PATTERN

SECTION R-R
NOTE 9TWO POSITION
DETAIL N
NOTE 8

C

C

D

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		scale 1:1	title BERGSTIK II HEADER .100/2.54 SR SELF-RET		
AP				angles	linear		dwg no 69190		
				0°±2°					
				dr	D. WHITING	4/19/93			
				enr	T.HANNA	4/19/93	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		LF OPTION	
		DIM F	DIM F	DIM G	DIM G	DIM H	DIM H		NOTE		
		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 ↓	
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	

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ltr	ecn	no	dr	date	tolerances unless otherwise specified				INCH/MM	title			
AP					angles	linear	.XXX±.01/.XX±.03			BERGSTIK II HEADER			
							.XXX±.005/.XXX±.013			.100/2.54 SR SELF-RET			
					0°±2°		.XXX±.0020/.XXX±.0051		scale 1:1	dwg no			
					dr	D. WHITING	4/19/93			sheet4 of 4		size	
					enrg	T.HANNA	4/19/93			69190		A3	
					chr	T. BREWBAKER	4/19/93						
					appd	T.HANNA	4/19/93			type Product Customer Drawing			
sheet index	revision sheet												