

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

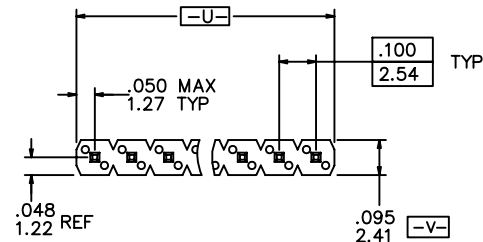
BASE PART NO.

⊕	∅	.020/.51	M	U	M	V	Ⓢ
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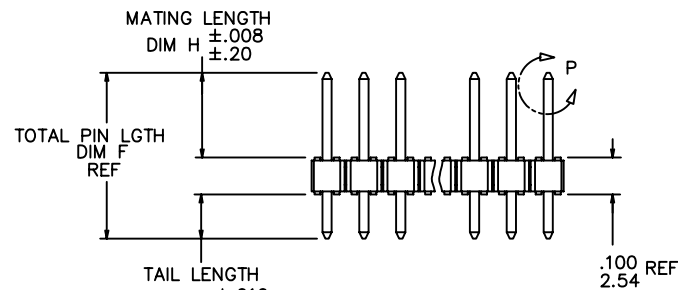
NOTE 4

□	.025±.001
□	0.64±.03 TYP

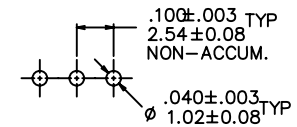
□	.013
□	0.33 MAX TYP

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

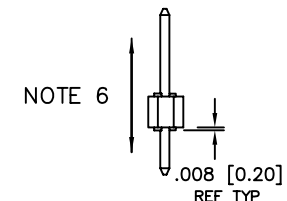
TOP VIEW



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		INCH/MM	scale 1:1	BERGSTIK® II HEADER .100/2.54 SR SELF-RET				
AN	ELX-N-16105	ZK	2013-10-22											
AP	ELX-N-19414	HJ	2014-11-13	0±.2"										
				dr		D. WHITING	4/19/93					dwg no	sheet1 of 4	size
AJ	M06-0346	MHT	9/04/06	engr	T.HANNA	4/19/93						69190		A3
AK	M08-0291	MHT	10/06/08	chr	T. BREWBAKER	4/19/93								
AL	N11-0118	J.Z	2011-04-11	appd	T.HANNA	4/19/93							type	Product
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°	XXXX-001/XXXX-013 XXXX-005/XXXX-013 XXXX-0020/XXXX-051			
				dr	D. WHITING	4/19/93	dwg no 69190	
				enr	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						sheet2 of 4	size A3

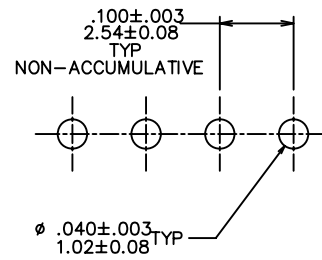
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2 3

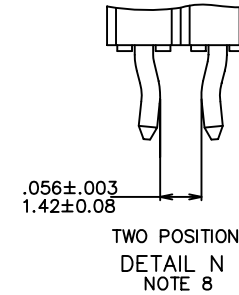
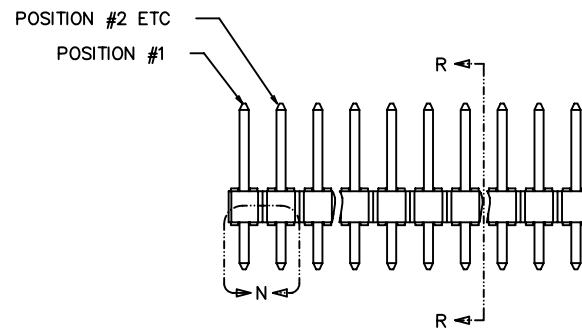
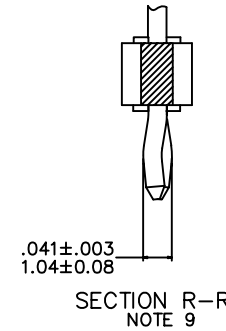
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5

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	FCI		
				chr	T. BREWBAKER	4/19/93			
				app	T.HANNA	4/19/93			
sheet index	revision sheet						dwg no	sheet 3 of 4	size
							69190		A3
							type Product Customer Drawing		



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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

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AP				angles	linear				
				0±2°	$.XX\pm.01/.XX\pm.03$ $.XXX\pm.005/.XXX\pm.013$ $.XXX\pm.0020/.XXX\pm.0051$				
				dr	D. WHITING	4/19/93			
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				app	T.HANNA	4/19/93			
sheet index	revision sheet						dwg no		
							sheet 4 of 4		
							69190		
							A3		
							type Product Customer Drawing		