

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

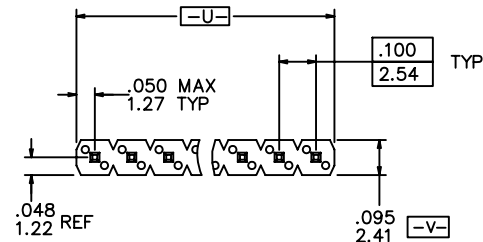
BASE PART NO.

⊕	∅	.020/.51	M	U	M	V	Ⓢ
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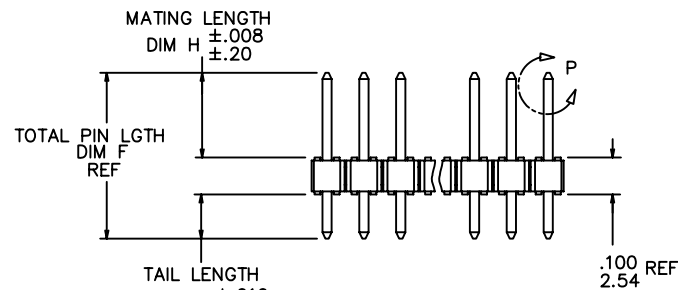
NOTE 4

□	.025±.001
□	0.64±.03 TYP

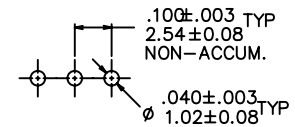
□	.013
□	0.33 MAX TYP

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

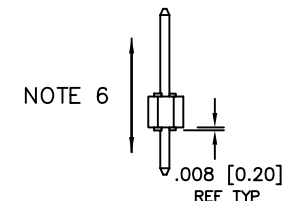
TOP VIEW



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	
AN		ELX-N-16105		ZK		2013-10-22				linear		.XXX±.005/.XXX±0.13	
AP		ELX-N-19414		HJ		2014-11-13		0'±2'		linear		.XXX±.0020/.XXX±0.051	
				dr		D. WHITING		4/19/93		scale 1:1			
AJ		M06-0346		MHT		9/04/06		engr		T.HANNA		4/19/93	
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	
										FCI			
												dwg no	
												sheet1 of 4	
												size	
												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.

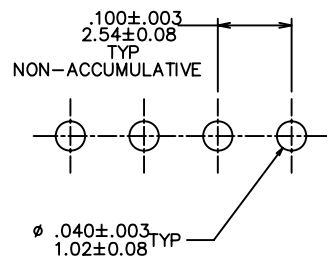
12. PLATING OPTIONS:

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

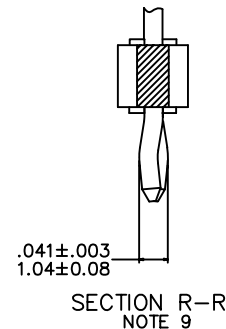
13. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."

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°	XXXX-001/XXXX-013 XXXX-005/XXXX-013 XXXX-0020/XXXX-051				
				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 sheet 2 of 4 size A3		
							type Product Customer Drawing		

A

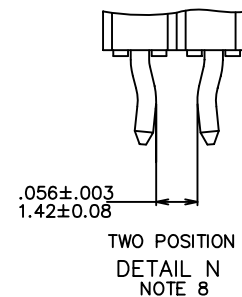
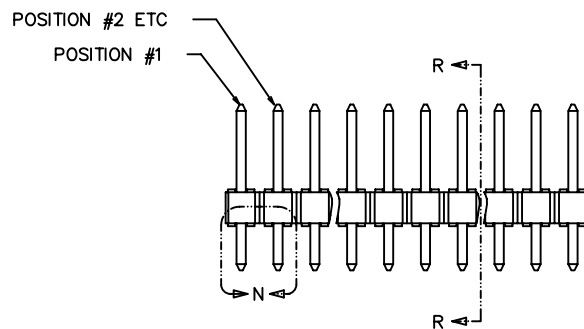


RECOMMENDED HOLE PATTERN



A

B



B

C

C

D

D



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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°	.XX±.01/.XX±0.3 .XXX±.005/.XXX±0.13 .XXX±.0020/.XXX±0.051				
				dr	D. WHITING	4/19/93			
				enr	T.HANNA	4/19/93	FCI		
				chr	T. BREWBAKER	4/19/93			
				appd	T.HANNA	4/19/93			
sheet index	revision sheet						dwg no	sheet3 of 4	size
							69190		A3
							type Product Customer Drawing		



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1				2		3						4		5		6	
PRODUCT NUMBER		TOTAL PIN LENGTH		TAIL LENGTH		MATING LENGTH								LF OPTION			
		DIM F	DIM F	DIM G	DIM G	DIM H	DIM H	PACKAGING				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 OB ↑ 			

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					
AP					angles		linear	.XX±.01/.XX±.03				INCH/MM 	BERGSTIK II HEADER				
								.XXX±.005/.XXX±.013					.100/2.54 SR SELF-RET				
					0°±2°			.XXX±.0020/.XXX±.0061					scale 1:1				
					dr	D. WHITING		4/19/93				dwg no		sheet4 of 4		size	
					engr	T.HANNA		4/19/93				69190				A3	
					chr	T. BREWBAKER		4/19/93				type Product Customer Drawing					
					appd	T.HANNA		4/19/93									
sheet index		revision sheet															

Mouser Electronics

Authorized Distributor

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[78538-205HLF](#) [78538-210HLF](#) [78538-405HLF](#) [78538-411HLF](#) [87036-136HLF](#) [87036-204HLF](#) [87036-412HLF](#)
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