

PRODUCT NUMBER

XXXXX-YYYH TLF

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

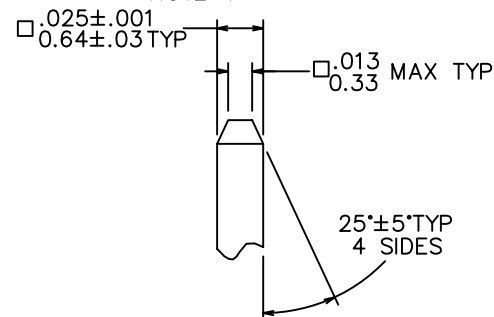
PRODUCT NUMBER

69190-XXXXX H ALF

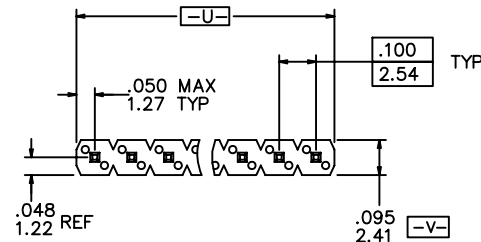
- LEAD FREE OPTION
SEE NOTE 1,11
- PACKAGING OPTION
SEE NOTE 1
- HIGH TEMPERATURE PLASTIC
SEE NOTE 1
- INDICATE DIFFERENT MATING LENGTH
AND TAIL LENGTH
- NO. OF POSITIONS
SEE NOTE 1
- PIN PLATING
SEE SHEET 2
- BASE PART NO.

⊕ ∅ .020/.51 (M) U (M) V (S)

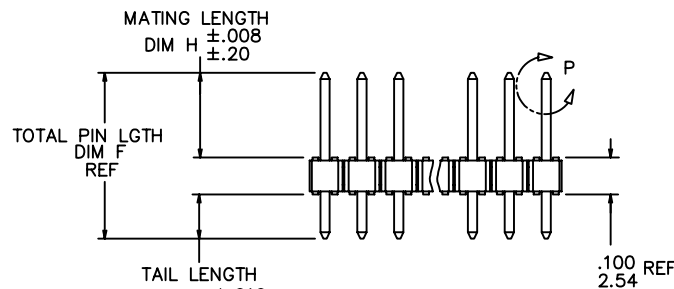
NOTE 4



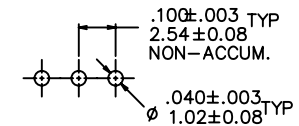
DETAIL P
TYP BOTH ENDS



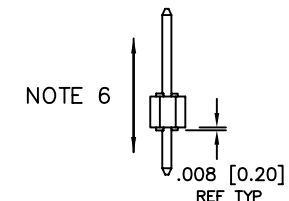
TOP VIEW



SIDE VIEW



RECOMMENDED HOLE PATTERN



END VIEW

mat'l. code NOTES 2 & 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101	projection INCH/MM scale 1:1	product family BERGSTIK		
ltr	ecn no	dr	date	angles	linear	tolerances unless otherwise specified		title BERGSTIK® II HEADER .100/2.54 SR SELF-RET		
AM	ELX-N-13674	DCS	2012-12-12			.XX±.01/.XX±0.3		dwg no 69190		
AN	ELX-N-16105	ZK	2013-10-22			.XX±.005/.XX±0.13				
AP	ELX-N-19414	HJ	2014-11-13	0°±2°		.XX±.0020/.XX±0.051		sheet1 of 4 size A3		
				dr	D. WHITING	4/19/93				
AJ	M06-0346	MHT	9/04/06	engr	T.HANNA	4/19/93		type Product Customer Drawing		
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				
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		

1

2 3

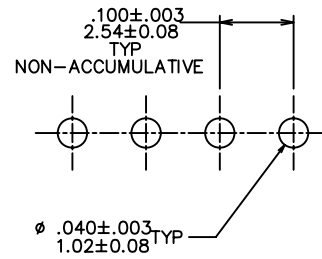
4

5

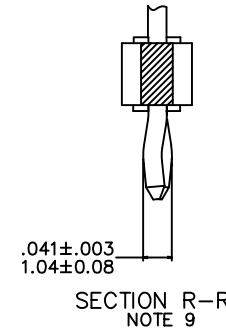
6

A

A

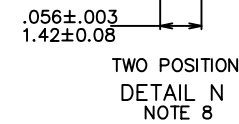
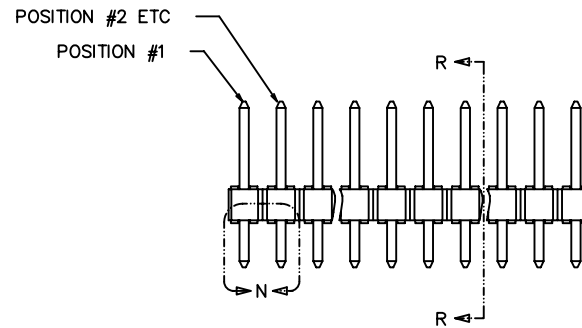


RECOMMENDED HOLE PATTERN



B

B



C

C

D

D



FCIconnect.com

Copyright FCI

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		
				chr	T. BREWBAKER	4/19/93	69190		
				appd	T.HANNA	4/19/93	type Product Customer Drawing		
sheet index	revision sheet								



FCIconnect.com

Copyright FCI

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		
ltr	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	FCI		
				enr	T.HANNA	4/19/93			
				chr	T. BREWBAKER	4/19/93			
				app	T.HANNA	4/19/93			
sheet index	revision sheet						type Product Customer Drawing		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI:](#)

[69190-505](#) [78538-216H](#) [78538-504H](#) [78538-505H](#) [69190-210](#) [79429-220H](#) [69190-210HLF](#) [78538-203HLF](#)
[78538-205HLF](#) [78538-210HLF](#) [78538-405HLF](#) [78538-411HLF](#) [87036-136HLF](#) [87036-204HLF](#) [87036-412HLF](#)
[87453-117HLF](#) [87918-136HLF](#) [69190-103H](#) [69190-436HLF](#) [87453-106HLF](#) [90603-109H](#) [78538-204HLF](#) [78538-](#)
[208HLF](#) [78538-216HLF](#) [78538-220HLF](#) [78538-403HLF](#) [78538-436HLF](#) [79429-102HLF](#) [79429-136HLF](#) [79429-](#)
[220HLF](#) [86505-203HLF](#) [87036-416HLF](#) [90603-102HLF](#) [90603-104HLF](#) [90603-109HLF](#) [90603-136HLF](#) [90603-](#)
[403HLF](#) [90603-436HLF](#) [90610-110HLF](#) [90610-405HLF](#) [90610-414HLF](#) [94549-102HLF](#) [94549-103HLF](#) [94549-](#)
[105HLF](#) [94549-120HLF](#) [94549-136HLF](#) [94549-203HLF](#) [94549-204HLF](#) [94549-206HLF](#) [94549-236HLF](#) [94549-](#)
[405HLF](#) [94549-406HLF](#) [94549-410HLF](#) [90603-106HLF](#) [69190-420LF](#) [69190-404LF](#) [69190-403LF](#) [69190-103LF](#)
[69190-102LF](#) [69190-236LF](#) [69190-406LF](#) [69190-610LF](#) [69190-202LF](#) [69190-110LF](#) [78229-102LF](#) [69190-204LF](#)
[69190-405LF](#) [69190-402LF](#) [69190-602LF](#) [87036-209HLF](#) [87036-222HLF](#) [87918-218HLF](#) [87918-105HLF](#) [90603-](#)
[404HLF](#) [87918-210HLF](#) [87918-222HLF](#) [90603-118HLF](#) [87036-220HLF](#) [87918-232HLF](#) [87918-104HLF](#) [87453-](#)
[112HLF](#) [87918-212HLF](#) [87036-210HLF](#) [87036-225HLF](#) [87918-220HLF](#)