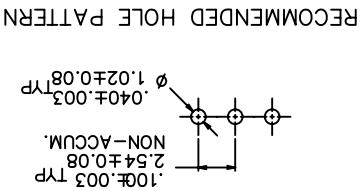
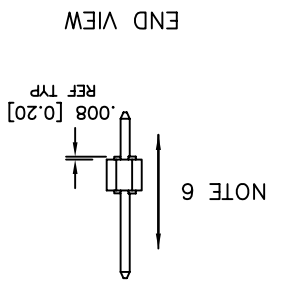
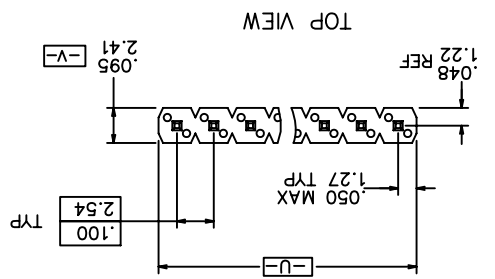
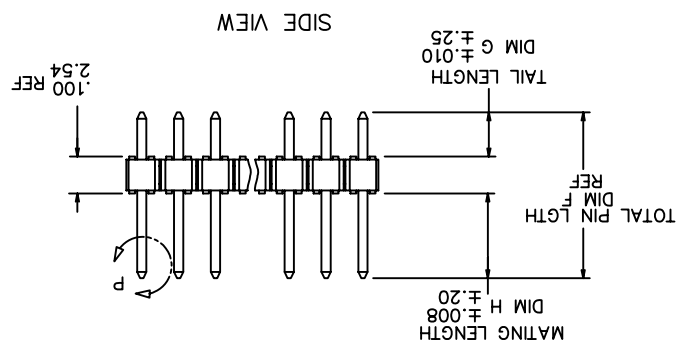


⊕ .020/.51 (M) U (M) V (S)

PRODUCT NUMBER 69190-XXXXX HALF
LEAD FREE OPTION SEE NOTE 1,11
TUBE PACKAGING OPTION SEE NOTE 1
HIGH TEMPERATURE PLASTIC SEE NOTE 1
INDICATE DIFFERENT MATING LENGTH AND TAIL LENGTH SEE NOTE 1
NO OF POSITIONS SEE NOTE 1
PIN PLATING SEE SHEET 2
BASE PART NO.

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.



mat'l. code		NOTES 2 & 3		surface tolerance		ISO 1302		ISO 406		ISO 1101	
itr		ecn no		date		tolerances unless otherwise specified		projection		product family	
AM		ELX-N-13674 DCS		2012-12-12		XX401/XX403		INCH/MM		BERGSTIK® II HEADER	
AN		ELX-N-16106 ZK		2013-10-22		XXXX006/XXXX013		scale 1:1		.100/2.54 SR SELF-RET	
AP		ELX-N-19414 HJ		2014-11-13		XXXX0020/XXXX051		type		69190	
AJ		M06-0346 MHT		9/04/06		engr T.HANNA		sheet no		sheet 1 of 4 size	
AK		M08-0291 MHT		10/06/08		chr T. BREWBAKER		type		Product Customer Drawing	
AL		N11-0118 JZ		2011-04-11		appd T.HANNA		sheet		revision	
index		sheet		revision		AP		sheet		1-4	

PIN PLATING CODES:	
XXXXX-1YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-2YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-3YY	50u"/1.27u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-4YY	100u"/2.54u MIN Sn OVER 50u"/1.27u MIN NI! (SEE NOTE 13)
XXXXX-5YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-6YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-7YY	30u"/0.76u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-8YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-9YY	15u"/0.38u MIN (SEE NOTE 12) OVER 50u"/1.27u MIN NI!
XXXXX-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.

- PIN MATERIAL: PHOS-BRONZE.
- MEASURED WITH PART IN RESTRAINED CONDITION.
- TWO SIDES OF PIN TIPS NOT PLATED. TYPICAL BOTH ENDS.
- 2LBS/0.9KG MIN PIN RETENTION IN EITHER DIRECTION.
- ±.010/0.25 TOL APPLIES TO ALL 'C' TAILS EXCEPT INDICATED PARTS ON TABLE WHERE +.010/0.25 - .000/0.00 APPLIES.
- DETAIL N DIMENSIONS APPLY TO 2 POSITION PARTS ONLY
- SECTION R-R DIMENSIONS ONLY APPLY TO RETENTION. PIN POSITIONS FOR 3 POSITION PARTS AND LARGER. RETENTION PIN POSITIONS LOCATED AT MANUFACTURER'S OPTION.
- 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.
- THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- PLATING OPTIONS:
PERFORMANCE PLATING WILL BE EITHER GOLD OR GXT ON POST OR TAIL. OPTIONALLY (78~295u"/2~7.5u) TIN ON TAIL.
- THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."

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.

mat'l. code		ISO 1302	surface	tolerance	ISO 406	projection	product family	BERGSTIK	
ltr	ecn no	dr	date	tolerances unless otherwise specified			title	BERGSTIK	
ang	near	in	near	ISO 406/XXX.XXX	ISO 406/XXX.XXX	ISO 406/XXX.XXX	scale 1:1	BERGSTIK II HEADER	
0±.2°	0±.2°	0±.2°	0±.2°	XXX.XXX/XXX.XXX	XXX.XXX/XXX.XXX	XXX.XXX/XXX.XXX	INCH/MM	.100/2.54 SR SELF-RET	
dr	D. WHITING	4/19/93	engr	T.HANNA	4/19/93	chr	T. BREWBAKER	4/19/93	
appd	T.HANNA	4/19/93	sheet	revision	index	sheet	revision	index	
dwg no		sheet 2 of 4 size		A3		69190		type Product Customer Drawing	



PRODUCT NUMBER	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H	DIM H	MATING LENGTH
69190-XYX	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	NOTE 1,11
72348-XYXH	0.515	13.08	0.120	3.05	0.295	7.49	POLY BAGS	NOTE 1,11
78229-XYX	0.538	13.67	0.120	3.05	0.318	8.08	POLY BAGS/TUBES	
78250-XYX							U N A V A I L A B L E	
78538-XYX	0.620	15.75	0.120	3.05	0.400	10.16	POLY BAGS	
78594-XYX	0.760	19.30	0.120	3.05	0.540	13.72	POLY BAGS	
79429-XYX	0.695	17.65	0.120	3.05	0.475	12.07	POLY BAGS	
79978-XYX	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	7
86505-XYX	0.440	11.18	0.120	3.05	0.220	5.59	POLY BAGS	
87036-XYX	0.830	21.08	0.120	3.05	0.610	15.49	POLY BAGS	
87068-XYX	0.530	13.46	0.115	2.92	0.315	8.00	POLY BAGS	
87280-XYX	1.000	25.40	0.120	3.05	0.780	19.81	POLY BAGS	
87452-XYX	0.840	21.34	0.120	3.05	0.620	15.75	POLY BAGS	
87453-XYX	0.990	25.15	0.120	3.05	0.770	19.56	POLY BAGS	
87918-XYX	0.730	18.54	0.120	3.05	0.510	12.95	POLY BAGS	
90603-XYX	0.430	10.92	0.100	2.54	0.230	5.84	POLY BAGS	
90610-XYX	0.927	23.55	0.100	2.54	0.727	18.47	POLY BAGS	
94549-XYXH	0.415	10.54	0.085	2.16	0.230	5.84	POLY BAGS	OB
69190-XYX01HLF	0.425	10.80	0.095	2.41	0.230	5.84	POLY BAGS	
69190-XYX02HLF	0.378	9.59	0.120	3.05	0.157	4.00	POLY BAGS/TUBES	

mat'l. code		surface		ISO 1302		tolerance		ISO 406		ISO 1101	
litr		ecn no		dr		date		tolerances unless otherwise specified		XXMM/XXJ3	
angles		inclin		0.±2°		XXMM/XXJ3		XXMM/XXJ3		XXMM/XXJ3	
scale 1:1		dwg no		sheet no		sheet revision		index		sheet	
product family		BERGSTIK		projection		FCI		type		Product Customer Drawing	
title		BERGSTIK II HEADER		.100/2.54 SR SELF-RET		A3		sheet 4 of 4 size		69190	

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