

PRODUCT NUMBER
SEE TABLE

NOTES:

1. FOR PRODUCT GEOMETRY AND GENERAL INFORMATION SEE DRAWINGS 93197 AND 93196.
2. THIS PART IS CUSTOMER REQUESTED WITH RETENTION ON ALL POSITIONS.
3. ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
4. THESE PRODUCTS MEET EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
5. PART NUMBERS WITH "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

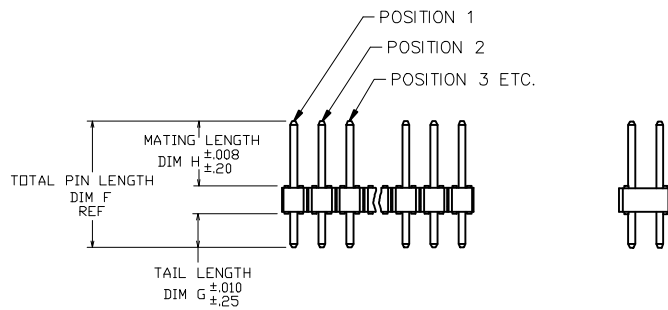
PART NUMBERS WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR WAVE SOLDER PROCESS.

BODY MATERIAL:

BERGSTIK: MANUFACTURER'S OPTION OF NYLON, PCT GLASS FIBER REINFORCED, FLAME RETARDENT PER UL-94V-0.
 COLOR : BLACK OR MINERAL FILLED LCP, FLAME RETARDENT PER UL-94V-0.
 COLOR BLACK.

6. PLATING OPTIONS:
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

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



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mat'l. code		surface		tolerance	projection	product family	
-		ISO 1302		ISO 406 ISO 1101		BERGSTIK	
lfr	ecr no	dr	dale	tolerances unless otherwise specified		title	
BP	v03-0297	HTB	3/12/03	linear	XX±.01/XX±0.3	BERGSTIK® II HDR. D/R	
BR	v21909	MRA	06/24/03	linear	XXX±.005/XXX±0.13	.100 POL. SELF-RET	
BS	v04-0163	HTB	2/16/04	0°±2'	XXX±.0020/XXX±0.051	scale	1:1
BT	M05-0175	ERE	7/28/05	dr	T. BREWBAKER	12/28/94	dwg no
BU	M06-0269	MNR	7/17/06	engr	T. HANNA	12/28/94	sheet 1 of 4 size
BV	M06-0346	MHT	9/04/06	chr	T. HANNA	12/28/94	69197
BW	M08-0291	MHT	10/06/08	appd	T. HANNA	12/28/94	A3
sheet		revision	BW	BW	BW	BW	type
index		sheet	1	2	3	4	Product Customer Drawing

PRODUCT NUMBER	SIZE	TOTAL PIN LENGTH		TAIL LENGTH		MATING LENGTH		WIRE CODE	POLARIZED POSITIONS	PACKAGING	NOTES	LEAD FREE WIRE CODE	LEAD FREE OPTION
		DIM F	DIM F	DIM G	DIM G	DIM H	DIM H						
		ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC						
69197-001	2x10	0.450	11.43	0.120	3.05	0.230	5.84	2	A-3	POLY BAGS	-	2	NOTE 3, 4
69197-002	2x10	0.450	11.43	0.120	3.05	0.230	5.84	2	A-7	POLY BAGS/TUBES	-	2	
69197-003	2x17	0.450	11.43	0.120	3.05	0.230	5.84	2	A-3	POLY BAGS/TUBES	-	2	
69197-004	2x17	0.450	11.43	0.120	3.05	0.230	5.84	2	A-8	POLY BAGS/TUBES	-	2	
69197-005	2x20	0.450	11.43	0.120	3.05	0.230	5.84	2	A-11	POLY BAGS/TUBES	-	2	
69197-006	2x25	0.450	11.43	0.120	3.05	0.230	5.84	2	A-8	POLY BAGS	-	2	
69197-007	2x25	0.450	11.43	0.120	3.05	0.230	5.84	2	A-10	POLY BAGS	-	2	
69197-008	2x25	0.450	11.43	0.120	3.05	0.230	5.84	2	A-15	POLY BAGS	-	2	
69197-009	2x15	0.450	11.43	0.120	3.05	0.230	5.84	1	A-3	POLY BAGS	-	1	
69197-010	2x20	0.450	11.43	0.120	3.05	0.230	5.84	2	A-1	POLY BAGS	-	2	
69197-011	2x25	0.450	11.43	0.120	3.05	0.230	5.84	2	A-22 B-17	POLY BAGS	-	2	
69197-012	2x17	0.505	12.83	0.120	3.05	0.285	7.24	4	A-8,9,10,14 B-8,9,10,14	POLY BAGS	-	4LF	
69197-013	2x7	0.450	11.43	0.120	3.05	0.230	5.84	2	A-1	POLY BAGS	-	2	
69197-014	2x13	0.450	11.43	0.120	3.05	0.230	5.84	2	A-5	POLY BAGS	-	2	
69197-015	2x13	0.450	11.43	0.120	3.05	0.230	5.84	1	A-4 B-7	POLY BAGS	-	1	
69197-016	2x30	0.450	11.43	0.120	3.05	0.230	5.84	1	A-5	POLY BAGS	-	1	
69197-017	2x9	0.450	11.43	0.120	3.05	0.230	5.84	1	A-3 B-4	POLY BAGS	-	1	
69197-018	2x13	0.450	11.43	0.120	3.05	0.230	5.84	2	A-2	POLY BAGS	-	2	
69197-019	2x13	0.450	11.43	0.120	3.05	0.230	5.84	2	A-12	POLY BAGS	-	2	
69197-020	2x12	0.450	11.43	0.120	3.05	0.230	5.84	2	A-9	POLY BAGS	-	2	
69197-021	2x8	0.450	11.43	0.120	3.05	0.230	5.84	2	A-4 A-5 B-5	POLY BAGS	-	2	
69197-022	2x6	0.450	11.43	0.120	3.05	0.230	5.84	1	A-1 B-5	POLY BAGS	-	1	
69197-023	2x17	0.450	11.43	0.120	3.05	0.230	5.84	1	A-3	POLY BAGS	-	1	
69197-024	2x20	0.450	11.43	0.120	3.05	0.230	5.84	1	A-11	POLY BAGS	-	1	
69197-025	2x13	0.450	11.43	0.120	3.05	0.230	5.84	1	A-13	POLY BAGS	-	1	
69197-026	2x8	0.450	11.43	0.120	3.05	0.230	5.84	1	A-6 B-1	POLY BAGS	-	1	
69197-027	2x3	0.720	18.29	0.120	3.05	0.500	12.70	1	A-2, 3 B-2, 3	POLY BAGS	-	1	



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mat'l. code	surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family
litr	ecn no	dr	date	BERGSTIK
BW				title
				BERGSTIK® II HDR. D/R
				.100 POL. SELF-RET
				dwg no
				69197
				sheet 2 of 4 size
				A3
				type
				Product Customer Drawing
sheet	revision			
index	sheet			

form: A3

PRODUCT NUMBER	SIZE	TOTAL PIN LENGTH		TAIL LENGTH		MATING LENGTH		WIRE CODE	POLARIZED POSITIONS	PACKAGING	NOTES	LEAD FREE WIRE CODE	LEAD FREE WIRE CODE
		DIM F	DIM F	DIM G	DIM G	DIM H	DIM H						
		ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC						
69197-028	2x4	0.450	11.43	0.120	3.05	0.230	5.84	2	B-3	POLY BAGS	-	2	NOTE 3, 4
69197-029H	2x4	0.450	11.43	0.120	3.05	0.230	5.84	2	B-2	POLY BAGS	-	2	
69197-030H	2x13	0.450	11.43	0.120	3.05	0.230	5.84	2	B-1	POLY BAGS	-	2	
69197-031H	2x3	0.450	11.43	0.120	3.05	0.230	5.84	2	A-2	POLY BAGS	-	2	
69197-032	2x20	0.460	11.68	0.120	3.05	0.240	6.10	2	A-11	POLY BAGS	NOTE 2	2	
69197-033H	2X10	0.450	11.43	0.120	3.05	0.230	5.84	2	A-1	POLY BAGS	-	2	
69197-034H	2x15	0.450	11.43	0.120	3.05	0.230	5.84	2	B-1	POLY BAGS	-	2	
69197-035H	2x8	0.450	11.43	0.120	3.05	0.230	5.84	2	B-7	POLY BAGS	-	2	
69197-036H	2x14	0.450	11.43	0.120	3.05	0.230	5.84	1	A-5&10 B-5&10	POLY BAGS	-	1	
69197-037H	2x13	0.450	11.43	0.120	3.05	0.230	5.84	2	A-7	POLY BAGS	-	2	
69197-038H	2x15	0.450	11.43	0.120	3.05	0.230	5.84	2	A-14	POLY BAGS	-	2	
69197-039H	2x17	0.450	11.43	0.120	3.05	0.230	5.84	2	A-12	POLY BAGS	-	2	
69197-040H	2x20	0.450	11.43	0.120	3.05	0.230	5.84	1	B-3	POLY BAGS	-	1	
69197-041H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	2	B-5	POLY BAGS	-	2	
69197-042H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	2	A-4 B-2	POLY BAGS	-	2	
69197-043H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	4	A-3&4 B-3&4	POLY BAGS	-	4LF	
69197-044H	2x17	0.450	11.43	0.120	3.05	0.230	5.84	2	A-2	POLY BAGS	-	2	
69197-045H	2x13	0.425	10.80	0.120	3.05	0.205	5.21	4	B-1	POLY BAGS	-	4	
69197-046H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	2	B-3	POLY BAGS	-	2	
69197-047H	2x7	0.450	11.43	0.120	3.05	0.230	5.84	2	B-2	POLY BAGS	-	2	
69197-048H	2x6	0.450	11.43	0.120	3.05	0.230	5.84	2	B-4	POLY BAGS	-	2	
69197-049H	2x22	0.450	11.43	0.120	3.05	0.230	5.84	1	A-2,3,5,6,8,9,11,12,14,15,17,18,20,21 B-2,3,5,6,8,9,11,12,14,15,17,18,20,21	POLY BAGS	-	1	
69197-050H	2x14	0.425	10.80	0.120	3.05	0.205	5.21	4	B-14	POLY BAGS	-	4LF	
69197-051H	2x7	0.450	11.43	0.120	3.05	0.230	5.84	2	B-4	POLY BAGS	-	2	
69197-052H	2x7	0.450	11.43	0.120	3.05	0.230	5.84	2	B-3	POLY BAGS	-	2	
69197-053H	2x7	0.450	11.43	0.120	3.05	0.230	5.84	2	A-1	POLY BAGS	-	2	
69197-054H	2x9	0.450	11.43	0.120	3.05	0.230	5.84	2	A-3 & B-4	POLY BAGS	-	2	NOTE 3, 4



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mat'l. code		surface ISO 1302		tolerance ISO 406 ISO 1101		projection		product family	
-		✓		XXX±0.01/XXX0.3		INCH/MM		BERGSTIK	
tolerances unless otherwise specified		linear		XXX±0.05/XXX0.13		scale 1:1		title	
0±2'		XXX±0.020/XXX0.051		T. BREWBAKER 12/28/94		T. HANNA 12/28/94		BERGSTIK® II HDR. D/R	
dr.		engr.		chr.		appd.		.100 POL. SELF-RET	
T. HANNA 12/28/94		T. HANNA 12/28/94		T. HANNA 12/28/94		T. HANNA 12/28/94		dwg no 69197 sheet 3 of 4 size A3	
sheet index		revision sheet		type		Product Customer Drawing			

form A3

PRODUCT NUMBER	SIZE	TOTAL PIN LENGTH		TAIL LENGTH		MATING LENGTH		WIRE CODE	POLARIZED POSITIONS	PACKAGING	NOTES	LEAD FREE WIRE CODE	LEAD FREE OPTION
		DIM F	DIM F	DIM G	DIM G	DIM H	DIM H						
		ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC						
69197-055H	2x20	0.450	11.43	0.120	3.05	0.230	5.84	2	A-13,A-14,B-14	POLY BAGS	-	2	NOTE 3, 4
69197-056H	2x7	0.415	10.54	0.085	2.16	0.230	5.84	1	A-5	POLY BAGS	-	1	
69197-057H	2x20	0.780	19.81	0.120	3.05	0.560	14.22	1	A-4.5.6.15.16.17,B-4.5.6.15.16.17	POLY BAGS	-	1	
69197-058H	2x17	0.470	11.94	0.120	3.05	0.250	6.35	4	A-2.4.6, B-2.4.6	POLY BAGS	NOTE 2	4LF	
69197-059H	2x7	0.676	17.17	0.125	3.18	0.451	11.46	2	A & B - 2.3,5,6	POLY BAGS	-	2	
69197-060H	2x9	0.450	11.43	0.120	3.05	0.230	5.84	2	B-7	POLY BAGS	-	2	
69197-061H	2x8	0.425	10.79	0.095	7.41	0.230	5.84	2	B-5, B-7	POLY BAGS	-	2	
69197-062H	2x20	0.630	16.00	0.125	3.18	0.407	10.84	1	A-2.3.5.6.7.14.15.16.18.19 B-2.3.5.6.7.14.15.16.18.19	POLY BAGS	-	1	
69197-063H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	2	B-1	POLY BAGS	-	2	
69197-064H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	2	A-5	POLY BAGS	-	2	
69197-065H	2x5	0.450	11.43	0.120	3.05	0.230	5.84	2	B-4	POLY BAGS	-	2	

PIN PLATING CODES	
1	30u"/0.76u MIN (SEE NOTE 6) OVER 50u"/1.27u MIN Ni
2	15u"/0.38u MIN (SEE NOTE 6) OVER 50u"/1.27u MIN Ni
4	100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 7)
4HLF	

mat'l. code	surface ISO 1502	tolerance ISO 406 ISO 1101	projection	product family
lir	ecn no	dr	date	tolerances unless otherwise specified
BW				angles linear 0 ± 2'
				linear XXX±.01/XXX.3 XXX±.005/XXX.13 XXX±.0020/XXX.0.051
				scale 1:1
		dr	T. BREWBAKER	12/28/94
		engr	T. HANNA	12/28/94
		chr	T. HANNA	12/28/94
		appd	T. HANNA	12/28/94
sheet index	revision sheet			



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