PRODUCT NUMBER
SEE TABLE

ROW B
ROW A

POSITION 1
POSITION 2
POSITION 3 ETC.

MATING LENGTH
DIM H ±.008
±.20

TOTAL PIN LENGTH
DIM F
REF

TAIL LENGTH
DIM G ±.010
±.25

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
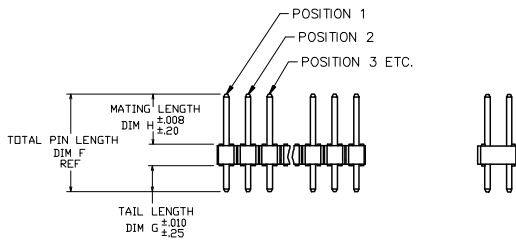   PHASE SOLDER PROCESS.

   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."

mat'l code			surface	tolerance	projection	product family
—			ISO 1302	ISO 406 / ISO 1101		BERGSTIK

ltr	ecn no	dr	date				title
BP	V03-0297	HTB	3/12/03	angles	XX±.01/.XX±0.3	INCH/MM	BERGSTIK® II HDR. D/R
BR	V21909	MRA	06/24/03		linear XXX±.005/.XX±0.13		.100 POL. SELF-RET
BS	V04-0163	HTB	2/16/04	0'±2'	XXXX±.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			69197
BV	M06-0346	MHT	9/04/06	chr T. HANNA 12/28/94			
BW	M08-0291	MHT	10/06/08	appd T. HANNA 12/28/94			type Product Customer Drawing

sheet 1 of 4 size A3

| sheet index | revision | BW | BW | BW | BW |
| | sheet | 1 | 2 | 3 | 4 |

form A3

PRODUCT NUMBER	SIZE	TOTAL PIN LENGTH DIM F ENGLISH	DIM F METRIC	TAIL LENGTH DIM G ENGLISH	DIM G METRIC	MATING LENGTH DIM H ENGLISH	DIM H METRIC	WIRE CODE	POLARIZED POSITIONS	PACKAGING	NOTES	LEAD FREE WIRE CODE	LEAD FREE OPTION
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	NOTE 3, 4

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

mat'l. code —
surface ISO 1302
tolerance ISO 406 ISO 1101
projection
product family BERGSTIK
title BERGSTIK® II HDR. D/R .100 POL. SELF-RET

ltr	ecn no	dr	date	Tolerances unless otherwise specified				INCH/MM
BW				angles		.XX±.01/.X±0.3		
					linear	.XXX±.005/.XX±0.13		
				0°±2'		.XXXX±.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

dwg no 69197 sheet 3 of 4 size A3
type Product Customer Drawing

Copyright FCI
FCIconnect.com

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 ENGLISH	DIM F METRIC	DIM G ENGLISH	DIM G METRIC	DIM H ENGLISH	DIM H 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	NOTE 3, 4

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 4HLF	100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 7)

mat'l. code				surface		tolerance		projection	product family
				ISO 1302		ISO 406 / ISO 1101			BERGSTIK

ltr | ecn no | dr | date — Tolerances unless otherwise specified

BW — angles 0'±2° — linear .XX±.01/.X±0.3, .XXX±.005/.X±0.13, .XXXX±.0020/.XX±0.051 — INCH/MM — scale 1:1

title — BERGSTIK® II HDR. D/R .100 POL. SELF-RET

dr T. BREWBAKER 12/28/94
engr T. HANNA 12/28/94
chr T. HANNA 12/28/94
appd T. HANNA 12/28/94

dwg no 69197 — sheet 4 of 4 — size A3

type Product Customer Drawing

sheet index | revision sheet

form A3