

PRODUCT NUMBER

XXXXX-XXX HTLF

LEAD FREE OPTION
(SEE NOTES 1)

PACKAGING OPTIONS
(SEE NOTE 1)

HIGH TEMPERATURE PLASTIC
(SEE NOTE 1)

NO OF
POSITIONS
(SEE NOTE 1)

PIN PLATING
(SEE SHEET 2)

BASE PART NO.

68000-X XX-XXX XXX LF

TAIL LENGTH (EXAMPLE BELOW)
3.0mm=030 12.8mm=128 (SEE NOTE 15 & 16)

MATING LENGTH (EXAMPLE BELOW)
5.0mm=050 25.5mm=255 (SEE NOTE 15 & 16)

TOTAL NUMBER OF POSITION
FROM 1 THRU 36 POS. (SEE NOTE 1)

PIN PLATING (SEE NOTE 13)
1=0.76µm Au
4= PURE TIN
8=0.36µm Au

BASE PART NO.

⊕ ⌀.020/.51 (M) U (M) V (S)

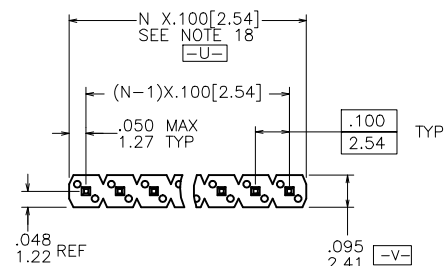
NOTE 4

□ .025±.001
0.64±.03 TYP

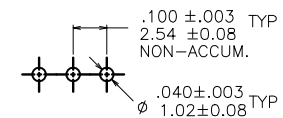
□ .013
0.33 MAX TYP

DETAIL P
TYP BOTH ENDS

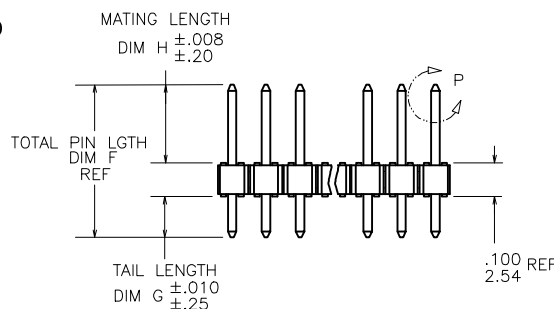
25'±5' TYP
4 SIDES



TOP VIEW

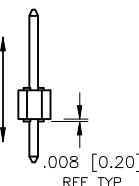


RECOMMENDED HOLE PATTERN



SIDE VIEW

NOTE 6



END VIEW

mat'l code SEE NOTES 2 & 3				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
lir	ecn no	dr	date	angles	linear	scale 1:1	title BERGSTIK® II HEADER
CP	M07-0118	AGS	2/16/07				.100/2.54cc SR STRAIGHT
CR	M07-0150	AGS	3/6/07				dwg no 68000
CS	M08-0168	MHT	2/26/08	0'±2'			sheet 1 of 8 size A3
CT	M06-0265	MHT	9/23/08	dr	T.BREWBAKER	01/05/95	type Product Customer Drawing
CU	M08-0331	MHT	12/01/08	engr	T.HANNA	01/05/95	
CV	M09-0090	MHT	6/19/09	chr	J.MURPHY	01/05/95	
CW	M09-0105	MHT	7/10/09	appd	T.HANNA	01/05/95	
sheet	revision	CW	CW	CW	CW	CW	
index	sheet	1	2	3	4	5	

PIN PLATING CODES:	
XXXX-1YY	30u"/0.76u MIN (SEE NOTE 13) OVER 50u"/1.27u MIN Ni
XXXX-2YY	15u"/0.38u MIN (SEE NOTE 13) OVER 50u"/1.27u MIN Ni
XXXX-3YY	50u"/1.27u MIN Au OVER 50u"/1.27u MIN Ni
XXXX-4YY	100u"/2.54u MIN Sn OVER 50u"/1.27u MIN Ni (SEE NOTE 14)
XXXX-4YYHLF	
XXXX-5YY	15u"/0.38u MIN (SEE NOTE 13) OVER 50u"/1.27u MIN Ni
XXXX-6YY	30u"/0.76u MIN (SEE NOTE 13) OVER 50u"/1.27u MIN Ni
XXXX-7YY	30u"/0.76u MIN Au OVER 50u"/1.27u MIN Ni
XXXX-8YY	15u"/0.38u MIN Au OVER 50u"/1.27u MIN Ni
XXXX-9YY	15u"/0.38u MIN GXT OVER 50u"/1.27u MIN Ni
XXXX-0YY	30u"/0.76u MIN GXT OVER 50u"/1.27u MIN Ni

NOTES

1. PART NUMBER OPTIONS:

PIN PLATING CODES (SEE ABOVE)

HIGH TEMP. MATERIAL:

PART NUMBERS WITH AND WITHOUT "H" WILL BE SUPPLIED WITH HIGH TEMPERATURE PLASTIC

NUMBER OF POSITIONS :

ANY NUMBER OF POSITIONS FROM 1 THRU 36.
-X00H INDICATES BERGSTRIK PRODUCT. SEE PAGE 3 FOR SPECIAL GEOMETRY OF THIS CONTINUOUS STRIP PRODUCT.
AUTOMATED REELS WILL CONTAIN 36,000 PINS.
SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

PACKAGING :

NO INDICATOR IS STANDARD PACKAGING 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 "C" ARE PACKAGED IN TUBES WITH PICKUP CAP APPLIED. (NOT TOOLED)

BERGSTRIK™ PART NUMBERS FOLLOWED BY A "B" ARE BULK PRICED.

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 :

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

COLOR : BLACK

BERGSTRIK™: PRODUCED WITH HIGH TEMPERATURE LCP THERMOPLASTIC, FLAME RETARDANT PER UL-94V-0.
COLOR : BLACK

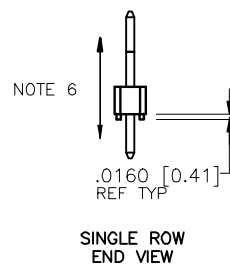
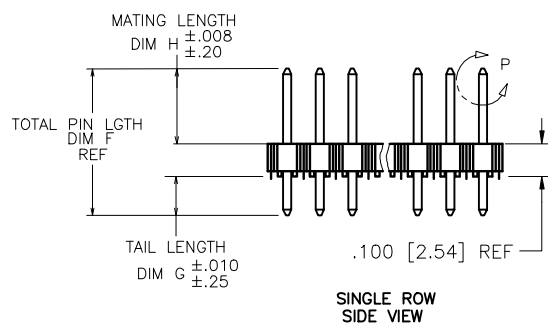
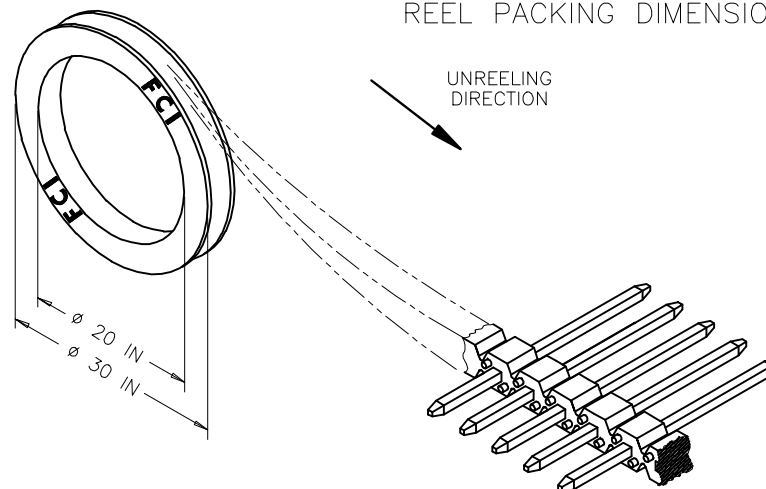
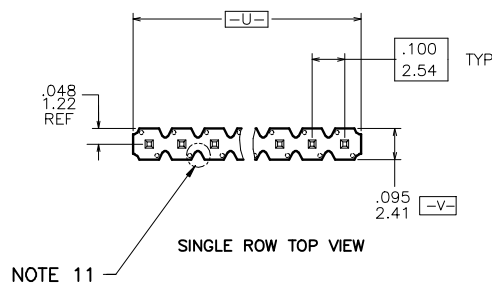
PART NUMBERS WITH AND WITHOUT "H" SUFFIX WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

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. PIN CANNOT PROTRUDE PAST EDGE OF HOUSING. MUST BE .005±.005/.13±.13 FROM END OF HOUSING HOLE.
8. MILITARY BERGSTIK HEADER
P/N XXXXX-YYY-MIL.
NOT AVAILABLE.
9. ±.010/0.25 TOL APPLIES TO ALL "G" TAILS EXCEPT INDICATED PARTS ON TABLE WHERE +.010/0.25 -.000/0.00 APPLIES.
10. INDICATED PART NUMBERS ARE PRODUCED AND SOLD IN THE TAIWAN/SINGAPORE AREAS. THESE ARE NOT AVAILABLE IN BERGSTRIK™ CONTINUOUS STRIP.
11. NOTCH CONFIGURATION WILL VARY PER VENDOR'S DISCRETION.
12. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
13. PLATING OPTIONS:
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.
14. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."
15. THE OAL DON'T EXCEED 34.5mm
16. INCREMENTS BY 0.1mm IN LENGTHS ONLY
17. FOR SPECIAL PACKAGING REQUEST PLEASE CONTACT PRODUCT MANAGER FOR AVAILABILITY
18. TO DETERMINE DIMENSIONS:
N=NUMBER OF POSITION PER ROW
EXAMPLE: 10 POS. N X .100/2.54

mat'l code SEE NOTES 2 & 3		surface ISO 1902	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified	title
cw				linear XXX.01/XX0.3 XXX±.005/XX0.13 XXX±.0020/XXX0.051	BERGSTIK II HEADER .100/2.54cc SR STRAIGHT
				0'±2'	scale 1:1
		dr	T.BREWBAKER	01/05/95	dwg no
		engr	T.HANNA	01/05/95	sheet 2 of 8
		chr	J.MURPHY	01/05/95	size
		appd	T.HANNA	01/05/95	A3
sheet	revision				type
index	sheet				Product Customer Drawing

BERGSTRIPTM HEADER

REEL PACKING DIMENSIONS



mat'l. code SEE NOTES 2 & 3			surface ISO 1302	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
lfr	ecn no	dr	date	tolerances unless otherwise specified	scale 1:1	title BERGSTIK® II HEADER .100/2.54cc SR STRAIGHT
CW				angles linear XX±.01/XX±0.3 XXX±.005/XX±0.13 XXXX±.0020/XXX±0.051		dwg no 68000
				dr T.BREWBAKER 01/05/95		sheet 3 of 8 size A3
				engr T.HANNA 01/05/95		
				chr J.MURPHY 01/05/95		
				appd T.HANNA 01/05/95		
sheet index	revision sheet					type Product Customer Drawing



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PRODUCT NUMBER	TOTAL PIN LGTH		TAIL LENGTH		MATING LENGTH					BERGSTRIPTM	LF OPTION
	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H				AVAILABLE	
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	PACKAGING		NOTES		
68629-YYY	0.621	15.77	0.203	5.16	0.318	8.08	POLY BAGS		—	NO	NOTE 1,12
68630-YYY	0.603	15.32	0.273	6.93	0.230	5.84	POLY BAGS		—	NO	
68631-YYY	0.703	17.86	0.203	5.16	0.400	10.16	POLY BAGS		—	NO	
68632-YYY	0.743	18.87	0.413	10.49	0.230	5.84	POLY BAGS		—	NO	
68633-YYY	0.643	16.33	0.225	5.72	0.318	8.08	POLY BAGS		—	NO	
68634-YYY	1.013	25.73	0.683	17.35	0.230	5.84	POLY BAGS		—	NO	
68642-YYY	0.913	23.19	0.583	14.81	0.230	5.84	POLY BAGS		—	NO	
68652-YYY	1.470	37.34	0.670	17.02	0.700	17.78	POLY BAGS		—	NO	
68653-YYY	0.735	18.67	0.095	2.41	0.540	13.72	POLY BAGS		—	NO	
68654-YYY	1.050	26.67	0.670	17.02	0.280	7.11	POLY BAGS		—	NO	
68655-YYY	0.708	17.98	0.290	7.37	0.318	8.08	POLY BAGS		—	NO	
68656-YYY	1.113	28.27	0.613	15.57	0.400	10.16	POLY BAGS		—	NO	
68657-YYY	0.588	14.94	0.368	9.35	0.120	3.05	POLY BAGS		—	NO	
68658-YYY	0.820	20.83	0.130	3.30	0.590	14.99	POLY BAGS		—	NO	
68659-YYY	0.608	15.44	0.398	10.11	0.110	2.79	POLY BAGS		—	NO	
68686-YYY	1.016	25.81	0.458	11.63	0.458	11.63	POLY BAGS		—	NO	
68689-YYY	0.913	23.19	0.213	5.41	0.600	15.24	POLY BAGS		—	NO	
68705-YYY	0.395	10.03	0.095	2.41	0.200	5.08	POLY BAGS		—	NO	
68717-YYY	0.615	15.62	0.285	7.24	0.230	5.84	POLY BAGS		—	NO	
68730-YYY	0.555	14.10	0.225	5.72	0.230	5.84	POLY BAGS		—	NO	
68731-YYY	0.880	22.35	0.440	11.18	0.340	8.64	POLY BAGS		—	NO	
68735-YYY	1.016	25.81	0.520	13.21	0.396	10.06	POLY BAGS		—	NO	
68755-YYY	1.166	29.62	0.533	13.54	0.533	13.54	POLY BAGS		—	NO	
68760-YYY	0.803	20.40	0.353	8.97	0.350	8.89	POLY BAGS		—	NO	
68762-YYY	0.588	14.94	0.213	5.41	0.275	6.99	POLY BAGS		—	NO	
68771-YYY	0.470	11.94	0.100	2.54	0.270	6.86	POLY BAGS		—	NO	
68781-YYY	0.691	17.55	0.273	6.93	0.318	8.08	POLY BAGS		—	NO	
											NOTE 1,12

mat'l. code SEE NOTES 2 & 3				Surface ISO 1302 ☒		Tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK	
ltr				ecp no		dr		date		title	
CW										BERGSTIK® II HEADER	
										.100/2.54cc SR STRAIGHT	
										scale 1:1	
										dwg no	
										sheet 5 of 8	
										size	
										A3	
										type	
										Product Customer Drawing	
sheet				revision							
index				sheet							

1												2												3												4												5												6											
PRODUCT NUMBER		TOTAL PIN LGTH		TAIL LENGTH		MATING LENGTH				BERGSTRIPT™		LF OPTION																																																											
DIM F		DIM F		DIM G		DIM G		DIM H		DIM H														AVAILABLE																																															
ENGLISH		METRIC		ENGLISH		METRIC		ENGLISH		METRIC														PACKAGING		NOTES																																													
68795—XXY		0.500		12.70		0.062		1.57		0.338		8.59		POLY BAGS		—		NO		NOTE 1,12																																																			
68796—XXY		0.633		16.08		0.423		10.74		0.110		2.79		POLY BAGS		—		NO																																																					
68797—XXY		0.413		10.49		0.213		5.41		0.100		2.54		POLY BAGS		—		NO																																																					
69148—XXY		0.442		11.43		0.000		0.00		0.350		8.89		POLY BAGS		—		NO																																																					
69152—XXY		0.720		18.29		0.120		3.05		0.500		12.70		POLY BAGS/TUBES		—		NO																																																					
69173—XXY		0.530		13.46		0.135		3.43		0.295		7.49		POLY BAGS		—		NO																																																					
69188—XXY		0.751		19.08		0.333		8.46		0.318		8.08		POLY BAGS		—		NO																																																					
69751—XXY		0.440		11.18		0.170		4.32		0.170		4.32		POLY BAGS		NOTE 10		NO																																																					
71417—XXY		0.664		16.87		0.115		2.92		0.449		11.40		POLY BAGS		NOTE 10		NO																																																					
72260—XXYH		0.930		23.62		0.090		2.29		0.740		18.80		POLY BAGS		—		NO																																																					
72323—XXYH		1.200		30.48		0.100		2.54		1.000		25.40		POLY BAGS		—		NO																																																					
72457—XXYH		1.100		27.94		0.090		2.29		0.910		23.11		POLY BAGS		—		NO																																																					
73698—XXYH		1.100		27.94		0.120		3.05		0.880		22.35		POLY BAGS		—		NO																																																					
74464—XXYH		1.028		26.11		0.610		15.49		0.318		8.08		POLY BAGS		—		NO																																																					
78240—XXY		0.663		16.84		0.333		8.46		0.230		5.84		POLY BAGS		—		NO																																																					
78287—XXY		0.678		17.22		0.120		3.05		0.458		11.63		POLY BAGS		—		NO																																																					
78290—XXY		1.250		31.75		0.500		12.70		0.650		16.51		POLY BAGS		—		NO																																																					
78511—XXY		0.538		13.67		0.120		3.05		0.318		8.08		POLY BAGS/TUBES		—		YES																																																					
78595—XXY				NOT		AVAILABLE										—		—																																																					
78931—XXY				NOT		AVAILABLE										—		—																																																					
78958—XXY				NOT		AVAILABLE										—		—																																																					
78959—XXY				NOT		AVAILABLE										—		—																																																					
78977—XXY				NOT		AVAILABLE										—		—																																																					
78998—XXY		0.430		10.92		0.155		3.94		0.175		4.45		POLY BAGS		—		NO																																																					
78999—XXY				NOT		AVAILABLE										—		—																																																					
79428—XXY		0.695		17.65		0.120		3.05		0.475		12.07		POLY BAGS		—		NO																																																					
79849—XXY		0.620		15.75		0.120		3.05		0.400		10.16		POLY BAGS		—		NO																																																					
NOTE 1,12																																																																							

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mat'l. code SEE NOTES 2 & 3				surface ISO 1902 ✓		tolerance ISO 406 ISO 1101		projection ⌀		product family BERGSTIK	
lfr		ecn no		dr		date		tolerances unless otherwise specified			
CW								linear		.004±.01/.004±.03	
								linear		.004±.005/.004±.013	
								linear		.0004±.0020/.0004±.0061	
								dr		T.BREWBAKER 01/05/95	
								engr		T.HANNA 01/05/95	
								chr		J.MURPHY 01/05/95	
								appd		T.HANNA 01/05/95	
sheet index		revision sheet									

title BERGSTIK® II HEADER		sheet 6 of 8 size	
.100/2.54cc SR STRAIGHT		A3	
dwg no 68000		type Product Customer Drawing	

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scale 1:1

FORM A3

PRODUCT NUMBER	TOTAL PIN LGTH		TAIL LENGTH		MATING LENGTH				BERGSTRIPTM	LF OPTION	
	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H			AVAILABLE		
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	PACKAGING	NOTES			
84918-XYH	0.340	8.64	0.120	3.05	0.120	3.05	POLY BAGS	—	YES	NOTE 1,12	
84921-XYH	0.370	9.40	0.150	3.81	0.120	3.05	POLY BAGS	—	YES		
86506-XY	0.440	11.18	0.120	3.05	0.220	5.59	POLY BAGS	—	YES		
86579-XY	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS	NOTE 9	NO		
86634-XY		NOT	AVAILABLE					—	—		
86635-XY		NOT	AVAILABLE					—	—		
86636-XY		NOT	AVAILABLE					—	—		
86637-XY		NOT	AVAILABLE					—	—		
86638-XY		NOT	AVAILABLE					—	—		
86793-XY	0.900	22.86	0.100	2.54	0.700	17.78	POLY BAGS	NOTE 10	NO		
86899-XY	1.020	25.91	0.120	3.05	0.800	20.32	POLY BAGS	—	NO		
87185-XY	1.238	31.45	0.095	2.41	1.043	26.49	POLY BAGS	NOTE 10	NO		
87204-XY	0.895	22.73	0.120	3.05	0.675	17.15	POLY BAGS	—	NO		
87241-XY	1.000	25.40	0.120	3.05	0.780	19.81	POLY BAGS	—	NO		
87502-XYH	1.130	28.70	0.110	2.79	0.920	23.37	POLY BAGS	—	NO		
87827-XY	0.380	9.65	0.120	3.05	0.160	4.06	POLY BAGS	—	NO		
87916-XY	1.058	26.87	0.128	3.25	0.830	21.08	POLY BAGS	—	NO		
88005-XY	0.536	13.61	0.095	2.41	0.341	8.66	POLY BAGS	NOTE 10	NO		
88706-XY	0.900	22.86	0.100	2.54	0.700	17.78	POLY BAGS	—	NO		
89232-XY	0.325	8.26	0.000	0.00	0.230	5.84	POLY BAGS	NOTE 7	NO	NOTE 1,12	

mat'l. code SEE NOTES 2 & 3				surface ISO 1302 ☒		tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK			
ltr	ecp no	dr	date	tolerances unless otherwise specified						title			
CW				linear		.XX±.01/XX±0.3		INCH/MM		BERGSTIK® II HEADER			
				angles		.XXX±.005/XXX±0.13		scale 1:1		.100/2.54cc SR STRAIGHT			
				0'±2'		.XXX±.0020/XXX±0.051				dwg no			
				dr		T.BREWBAKER 01/05/95				sheet 7 of 8 size			
				engr		T.HANNA 01/05/95				68000 A3			
				chr		J.MURPHY 01/05/95				type Product Customer Drawing			
				appd		T.HANNA 01/05/95							
sheet index	revision	sheet											



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PRODUCT NUMBER	1 TOTAL PIN LGTH		TAIL LENGTH		2 3 MATING LENGTH		4		5		BERGSTRIPTM AVAILABLE	LF OPTION	6
	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H							
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	PACKAGING		NOTES				
90522-YYY	0.668	16.97	0.135	3.43	0.433	11.00	POLY BAGS	NOTE 10	NO	NOTE 1,12			
90547-YYY	0.508	12.90	0.095	2.41	0.313	7.95	POLY BAGS	NOTE 10	NO				
90719-YYY	0.384	9.75	0.106	2.69	0.178	4.52	POLY BAGS	-	NO				
90726-YYY	0.440	11.18	0.110	2.79	0.230	5.84	POLY BAGS	-	YES				
91276-YYY	1.225	31.12	0.225	5.72	0.900	22.86	POLY BAGS	-	NO				
92020-YYY	0.372	9.45	0.094	2.39	0.178	4.52	POLY BAGS	-	NO				
92418-YYY	0.572	14.53	0.118	3.00	0.354	8.99	POLY BAGS	-	NO				
93167-YYY	0.394	10.01	0.059	1.50	0.235	5.97	POLY BAGS	-	NO				
93287-YYYH	0.585	14.86	0.085	2.16	0.400	10.16	POLY BAGS	-	NO				
93944-YYY	0.941	23.90	0.130	3.30	0.711	18.06	POLY BAGS	-	NO				
93992-YYYH	0.415	10.54	0.085	2.16	0.230	5.84	POLY BAGS	-	NO				
94063-YYY	0.376	9.55	0.138	3.51	0.138	3.51	POLY BAGS	NOTE 10	NO				
94094-YYY	0.592	15.04	0.314	7.98	0.178	4.52	POLY BAGS	-	NO				
94544-YYY	0.550	13.97	0.130	3.30	0.330	8.38	POLY BAGS	NOTE 10	NO				
94611-YYYH	0.320	8.13	0.095	2.41	0.125	3.18	POLY BAGS	-	NO				
95017-YYYH	0.560	14.22	0.060	1.52	0.400	10.16	POLY BAGS	-	NO				
95103-YYY	1.064	27.03	0.433	11.00	0.531	13.49	POLY BAGS	NOTE 10	NO				
95104-YYY	0.370	9.40	0.126	3.20	0.144	3.66	POLY BAGS	NOTE 10	NO				
95648-YYYH	0.655	16.64	0.155	3.94	0.400	10.16	POLY BAGS	-	NO				
95655-YYY	1.164	29.57	0.095	2.41	0.969	24.61	POLY BAGS	NOTE 10	NO				
98001-YYYH	0.610	15.49	0.420	10.67	0.090	2.29	POLY BAGS	-	NO				
98136-YYYH	0.475	12.07	0.095	2.41	0.280	7.11	POLY BAGS	-	NO				
10004394-YYYH	0.290	7.37	0.095	2.41	0.095	2.41	POLY BAGS	-	NO				
10076764-XXYH	0.479	12.19	0.114	2.9	0.265	6.75	POLY BAGS	-	YES				
10103017-YYY	0.335	8.51	0.130	3.30	0.105	2.67	POLY BAGS	-	NO	NOTE 1,12			

mat'l code SEE NOTES 2 & 3				surface ISO 1502 ✓		tolerance ISO 406 ISO 1101		projection INCH/MM		product family BERGSTIK	
ltr	ecn no	dr	date	tolerances unless otherwise specified		linear		INCH/MM		title	
CW				0° ± 2'		XXX ± 0.01 / XXX ± 0.3		scale 1:1		BERGSTIK® II HEADER	
				0° ± 2'		XXX ± 0.05 / XXX ± 0.13				.100/2.54cc SR STRAIGHT	
				0° ± 2'		XXX ± 0.020 / XXX ± 0.051				dwg no	
				dr		T.BREWBAKER 01/05/95				sheet 8 of 8 size	
				engr		T.HANNA 01/05/95				A3	
				chr		J.MURPHY 01/05/95				type	
				appd		T.HANNA 01/05/95				Product Customer Drawing	
sheet index	revision	sheet									

form A3