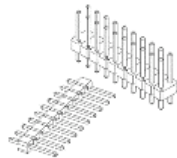




68602-116HLF

68602-116HLF - BergStik® : Unshrouded Header,
Through Hole, Double Row, 16 Positions, 2.54 mm
Pitch, Vertical, 5.84 mm (0.23 in.) Mating, 3.81 mm
(0.15 in.) Tail



Customer
drawing



Environmental
Compliance Report

General Dimensional Electrical Mechanical Mounting Physical Approvals / Certifications Other Features

General

Number of contacts (per row)	8
Number of contacts (Total)	16
Number of rows	2
Orientation	Vertical
Packaging	Bulk Packaging
Attachment type (Board)	Through Hole
Series Number	68602

Dimensional

Length (Mating pin)	5.84 mm (0.23 in.)
Length (Overall pin)	12.19 mm (0.48 in.)
Length (Tail)	3.81 mm (0.15 in.)

Electrical

Current rating	3 amp Continuous
Resistance (Insulation)	5000 M-ohms
Voltage rating	1500V AC rms

Mechanical

Retention force	8.88N (2 lbf)
-----------------	---------------

Mounting

Retention feature (Board)	No
Solder process	Vapor-phase IR Reflow Soldering Processes Compatible with Wave

Physical

Color (Housing)	Black
Material (Contact)	Phospor Bronze
Material (Housing)	High Temperature Black Thermoplastic
Plating (Contact area)	0.76 µm (30 µin.) Gold or GXT
Plating (Tail)	0.76 µm (30 µin.) Gold or GXT, or Tin
Underplating (Contact)	1.27 µm (50 µin.) Nickel
Flammability rating	UL 94 V-0
Temperature (Range)	-65°C to +125°C

Approvals / Certifications

UL File Number	E66906
CSA File Number	LR46923
Approvals / Certifications	UL and CSA Approved

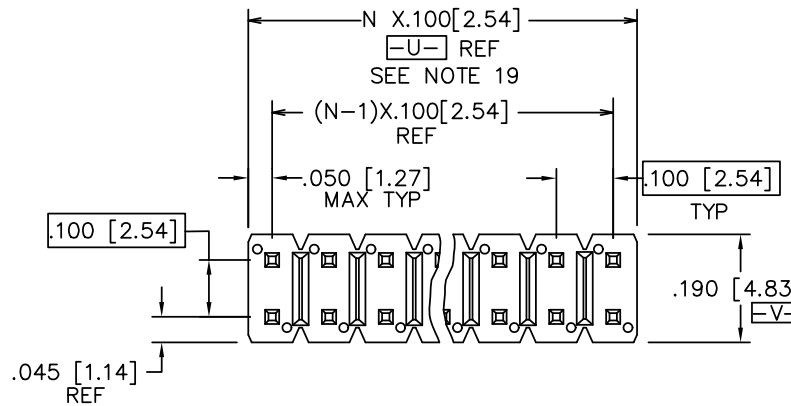
Other Features

Comments	Sample Kit 950501-016
Literature	950559-001

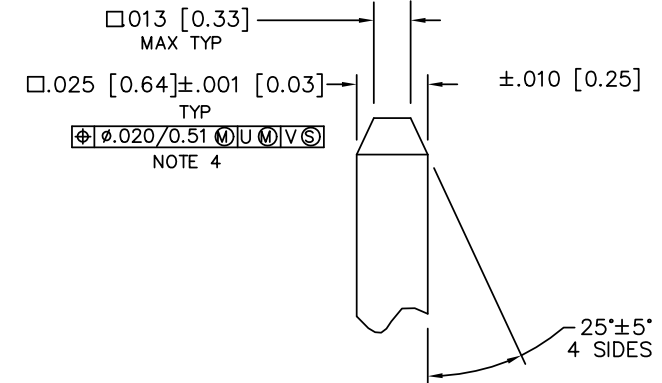
PRODUCT NUMBER

XXXXX-YYYHPLF

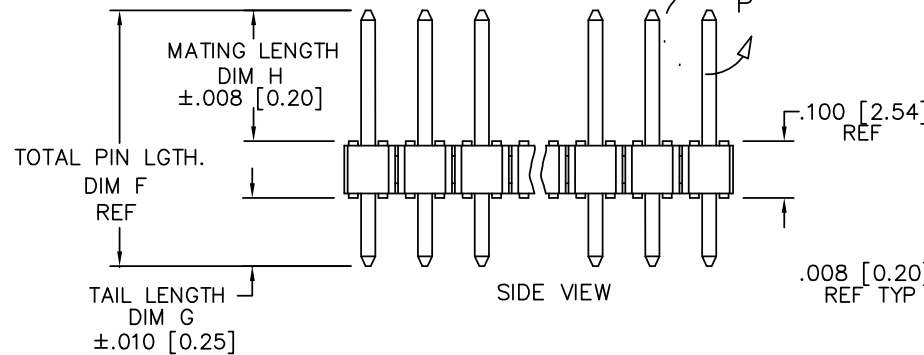
- LEAD FREE OPTION
SEE NOTE 1,13
- SPECIAL OPTIONS
SEE NOTE 1 OR 10
- HIGH TEMPERATURE PLASTIC
SEE NOTE 1
- NO OF
POSITIONS
SEE NOTE 1
- PIN PLATING
SEE SHEET 2
- BASE PART NO.



TOP VIEW



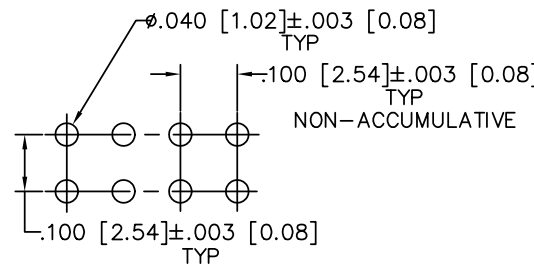
DETAIL P
SCALE 5:1
TYP BOTH ENDS



SIDE VIEW

END VIEW

NOTE 6



RECOMMENDED HOLE PATTERN

67996-X XX-XXX XXX LF

- TAIL LENGTH (EXAMPLE BELOW)
3.0mm=030 12.8mm=128
(SEE NOTE 16 & 17)
- MATING LENGTH (EXAMPLE BELOW)
5.0mm=050 25.5mm=255
(SEE NOTE 16 & 17)
- TOTAL NUMBER OF POSITIONS
FROM 2 (2X1) THRU 72 (2X36) POS.
- PIN PLATING (SEE NOTE 14)
1=0.76μm Au
4= PURE TIN
8=0.36μm Au
- BASE PART NO.
DOUBLE ROW

mat'l. code NOTE 2 & 3				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection ISO 1101	product family BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified		INCH/MM	title BERGSTIK II HEADER D/R .100/2.54cc STRAIGHT
DF	N11-0180	J.Z	2011-05-31	angles	linear		
DG	ELX-N-13471	J.Z	2011-11-16	0°±2°	linear	scale 2:1	dwg no 67996
				dr	T.BREWBAKER	12/21/94	sheet 1 of 8 size A3
				enr	T.HANNA	12/21/94	
				chr	J.MURPHY	12/21/94	
				appd	T.HANNA	12/21/94	
sheet index	revision sheet	DG	...	DG	...		type Product Customer Drawing

PDS: Rev :DG

STATUS: Released

Printed: Nov 16, 2012

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

NOTES

1. PART NUMBER OPTIONS:
PIN PLATING CODES (SEE ABOVE)

HIGH TEMPERATURE MATERIAL:

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

NUMBER OF POSITIONS :

EVEN NUMBER OF POSITIONS FROM 2 (2X1) THROUGH 72 (2X36).
-X00H INDICATES BERGSTRIIP PRODUCT. SEE PAGE 3
FOR SPECIAL GEOMETRY OF THIS CONTINUOUS STRIP PRODUCT.
AUTOMATED REELS WILL CONTAIN 45,000 PINS.
SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.

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 "G" ARE PACKAGED
IN GPAX FOR IBM ONLY. SEE SPECIFIC PART NUMBERS FOR AVAILABILITY.
PART NUMBERS FOLLOWED BY A "C" ARE PACKAGED IN TUBES
WITH A PICKUP CAP APPLIED.
EIGHT DIGIT PART NUMBERS FOLLOWED BY A "A" ARE PACKAGED 
IN TAPE/REEL WITH PICKUP CAP P/N 95730-003 APPLIED, PER BUS-14-345.

LEAD FREE:

ADD "HLF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE
OPTION, NOT AVAILABLE FOR -5YY,-5YYH, -6YY & -6YYH

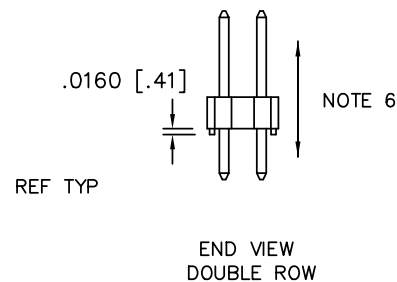
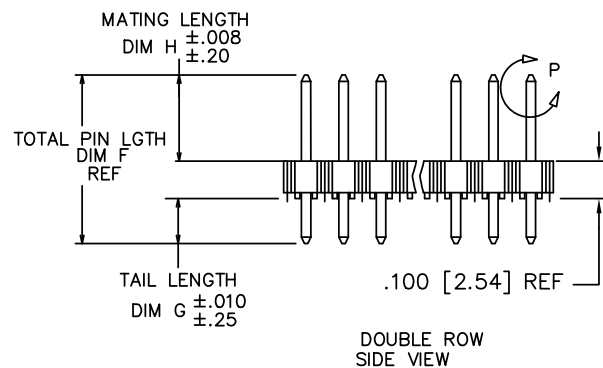
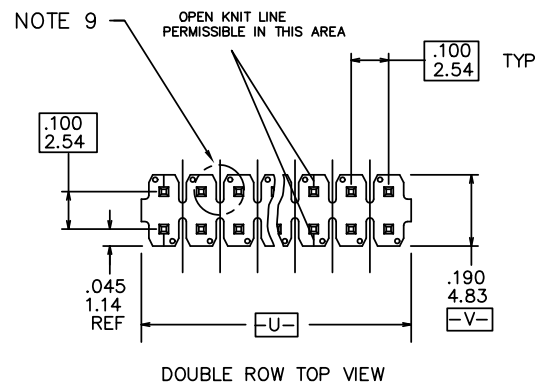
2. BODY MATERIAL:

BODY MATERIAL : MANUFACTURER'S OPTION OF NYLON, PCT GLASS FIBER
REINFORCED OR MINERAL FILLED LCP FLAME RETARDENT PER UL-94V-0.
COLOR: BLACK
BERGSTRIIP™ PRODUCED WITH HIGH TEMPERATURE LCP
THERMOPLASTIC, FLAME RETARDENT PER UL-94V-0.
COLOR: BLACK
PART NUMBERS WITH "H" AND WITHOUT SUFFIX WILL WITHSTAND EXPOSURE
TO 260° C PEAK TEMPERATURE FOR 20 SECONDS IN
WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

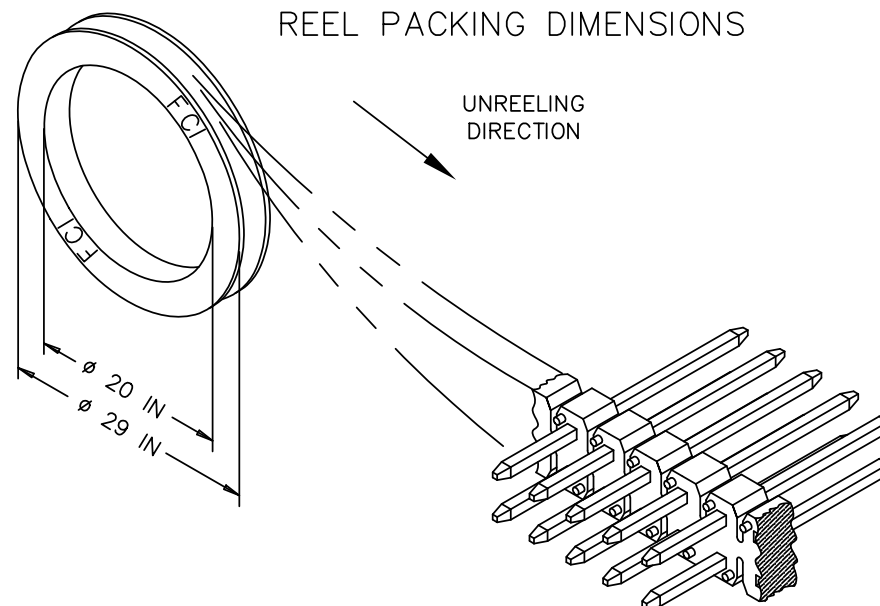
3. PIN MATERIAL: PHOS BRONZE.
4. MEASURED WITH PART IN RESTRAINED CONDITION.
5. TWO SIDES OF PIN TIPS NOT PLATED. TYPICAL BOTH ENDS.
6. 2LBS/0.9KG MIN PIN RETENTION IN EITHER DIRECTION.
7. MILITARY BERGSTIK HEADER
P/N XXXXX-XY-MIL
NOT AVAILABLE.
8. ±.010/0.25 TOL APPLIES TO ALL "G" TAILS EXCEPT
INDICATED PARTS ON TABLE WHERE +.010/0.25 -.000/0.00
APPLIES.
9. NOTCH CONFIGURATION WILL VARY PER VENDOR'S DISCRETION.
10. BERGSTRIIP™ PART NUMBERS FOLLOWED BY
BY A "B" ARE BULK PRICED.
11. TAIL LENGTH (DIM. G) TO BE ±.008/.020.
12. POSITIONS PER ROW 37 TO 50 CAN BE PRODUCED,
BUT FLATNESS AND CURVATURE MAY NOT BE
HELD AS CLOSE AS 36 POSITIONS.
13. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
14. PLATING OPTIONS:
PERFORMANCE PLATING WILL BE EITHER GOLD OR GXT ON POST OR TAIL,
OPTIONALLY (78~295u")/2~7.5u) TIN ON TAIL.
15. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT
ENVIRONMENTS."
16. THE OAL DON'T EXCEED 34.5mm
17. INCREMENTS BY 0.1mm IN LENGTHS ONLY
18. FOR SPECIAL PACKAGING REQUEST PLEASE CONTACT PRODUCT MANAGER FOR AVAILABILITY
19. TO DETERMINE DIMENSIONS:
N=NUMBER OF POSITION PER ROW
EXAMPLE: 10 POS. N X .100/2.54

mat'l. code NOTE 2 & 3				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family BERGSTIK
ltr	ecn	no	dr	date	tolerances unless otherwise specified	INCH/MM scale 2:1 	title
DG					angles linear XX±01/XX±3 XXX±0.005/XXX±.13 XXXX±0020/XXX±.05		BERGSTIK II HEADER D/R .100/2.54cc STRAIGHT
					dr T.BREWBAKER 12/21/94 enr T.HANNA 12/21/94 chr J.MURPHY 12/21/94 appd T.HANNA 12/21/94		dwg no sheet 2 of 8 size 67996 A3
sheet index		revision sheet					type Product Customer Drawing

BERGSTRIPTM HEADER



REEL PACKING DIMENSIONS



mat'l. code NOTE 2 & 3				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 	product family BERGSTIK	
ltr	ec	n	dr	date	tolerances unless otherwise specified				title	
DG					angles	linear	$.XX\pm.01/XX\pm.3$	INCH/MM scale 2:1	BERGSTIK II HEADER D/R .100/2.54cc STRAIGHT	
							$.XXX\pm.0.005/XXX\pm.13$			
					$0^\circ\pm 2^\circ$		$.XXXX\pm.0020/XXX\pm.05$			
					dr	T.BREWBAKER	12/21/94		dwg no	
					enr	T.HANNA	12/21/94		sheet 3 of 8	
					chr	J.MURPHY	12/21/94		67996	
					app	T.HANNA	12/21/94		A3	
sheet index		revision sheet							type Product Customer Drawing	

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PRODUCT NUMBER	TOT. PIN LGTH.		TAIL LENGTH		MATING LENGTH		PACKAGING	NOTES	BERGSTRIIP™ AVAILABLE	LF OPTION
	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H				
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC				
55005-YYYH	0.597	15.16	0.095	2.41	0.402	10.21	POLY BAGS	-	YES	NOTE 1,13
55030-YYYH	0.630	16.00	0.150	3.81	0.380	9.65	POLY BAGS	-	YES	
67996-YYY	0.425	10.80	0.095	2.41	0.230	5.84	POLY BAGS/TUBES	-	YES	
67997-YYY	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	-	YES	
67997-YYYH	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS/TUBES	-	YES	
67998-YYY	0.525	13.34	0.107	2.72	0.318	8.08	POLY BAGS/TUBES	-	YES	
67999-YYY	0.548	13.92	0.130	3.30	0.318	8.08	POLY BAGS	-	NO	
68438-YYY	0.555	14.10	0.225	5.72	0.230	5.84	POLY BAGS/TUBES	-	NO	
68439-YYY	0.720	18.29	0.120	3.05	0.500	12.70	POLY BAGS	-	NO	
68464-YYY	0.650	16.51	0.120	3.05	0.430	10.92	POLY BAGS/TUBES	-	NO	
68481-YYY	0.480	12.19	0.095	2.41	0.285	7.24	POLY BAGS/TUBES	-	NO	
68482-YYY	0.938	23.83	0.318	8.08	0.520	13.21	POLY BAGS	-	NO	
68491-YYY	0.475	12.07	0.120	3.05	0.255	6.48	POLY BAGS/TUBES	-	NO	
68600-YYY	0.825	20.96	0.115	2.92	0.610	15.49	POLY BAGS	-	NO	
68601-YYY	0.620	15.75	0.120	3.05	0.400	10.16	POLY BAGS	-	NO	
68602-YYY	0.480	12.19	0.150	3.81	0.230	5.84	POLY BAGS	-	YES	
68690-YYY	0.533	13.54	0.115	2.92	0.318	8.08	POLY BAGS	-	NO	
68691-YYY	0.538	13.67	0.120	3.05	0.318	8.08	POLY BAGS	-	YES	
68692-YYY	0.430	10.92	0.100	2.54	0.230	5.84	POLY BAGS	-	NO	
68693-YYY	0.938	23.83	0.520	13.21	0.318	8.08	POLY BAGS	-	NO	
68716-YYY	0.828	21.03	0.410	10.41	0.318	8.08	POLY BAGS	-	NO	
68734-YYY	0.615	15.62	0.230	5.84	0.285	7.24	POLY BAGS	-	NO	
68737-YYY	0.440	11.18	0.110	2.79	0.230	5.84	POLY BAGS	-	YES	
68738-YYY	0.615	15.62	0.115	2.92	0.400	10.16	POLY BAGS	-	NO	
68739-YYY	0.486	12.34	0.156	3.96	0.230	5.84	POLY BAGS	-	NO	
68743-YYY	0.638	16.21	0.220	5.59	0.318	8.08	POLY BAGS	-	NO	
68749-YYY	0.838	21.29	0.420	10.67	0.318	8.08	POLY BAGS	-	NO	
68779-YYY	0.736	18.69	0.318	8.08	0.318	8.08	POLY BAGS	-	NO	
68783-YYY	0.375	9.53	0.045	1.14	0.230	5.84	POLY BAGS	-	NO	
68799-YYY	0.925	23.50	0.595	15.11	0.230	5.84	POLY BAGS	-	NO	NOTE 1,13

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mat'l. code				surface		tolerance		projection		product family	
NOTE 2 & 3				ISO 1302 ✓		ISO 406 ISO 1101				BERGSTIK	
ltr	ecn	no	dr	date		tolerances unless otherwise specified		title			
DG						angles	linear	.XX±.01/.X±.3		BERGSTIK II HEADER D/R	
								.XXX±0.005/.XXX±.13		.100/2.54cc STRAIGHT	
						0°±2°		.XXX±.0020/.XXX±.05		scale 2:1	
						dr	T.BREWBAKER	12/21/94		sheet 4 of 8	
						enr	T.HANNA	12/21/94		size	
						chr	J.MURPHY	12/21/94		A3	
						appd	T.HANNA	12/21/94		type Product Customer Drawing	
sheet index	revision sheet										

form: A3

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PDS: Rev :DG

STATUS: Released

Printed: Nov 16, 2012

form: A3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465
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PRODUCT NUMBER	TOT. PIN LGTH.		TAIL LENGTH		MATING LENGTH				BERGSTRIPTM	LF OPTION	
	DIM F	DIM F	DIM G	DIM G	DIM H	DIM H	PACKAGING	NOTES	AVAILABLE		
	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC					
78995-YYY	UNAVAILABLE		UNAVAILABLE		UNAVAILABLE			-	-	NOTE 1,13	
78996-YYY	UNAVAILABLE		UNAVAILABLE		UNAVAILABLE			-	-		
79242-YYY	0.930	23.62	0.340	8.64	0.490	12.45	POLY BAGS	-	NO		
79243-YYY	1.230	31.24	0.390	9.91	0.740	18.80	POLY BAGS	-	NO		
79244-YYY	UNAVAILABLE		UNAVAILABLE		UNAVAILABLE			-	-		
79268-YYY	1.020	25.91	0.120	3.05	0.800	20.32	POLY BAGS	-	NO		
79271-YYY	1.100	27.94	0.500	12.70	0.500	12.70	POLY BAGS	-	NO		
79425-YYY	0.410	10.41	0.120	3.05	0.190	4.83	POLY BAGS	-	NO		
79821-YYY	0.730	18.54	0.200	5.08	0.430	10.92	POLY BAGS	-	NO		
84610-YYYH	0.380	9.65	0.120	3.05	0.160	4.06	POLY BAGS	-	NO		
84760-YYYH	0.870	22.09	0.150	3.81	0.620	15.74	POLY BAGS	-	NO		
84784-YYYH	1.130	28.70	0.122	3.09	0.908	23.06	POLY BAGS	-	NO		
84934-YYYH	1.375	34.93	0.625	15.88	0.650	16.51	POLY BAGS	-	NO		
84976-YYYH	0.730	18.54	0.400	10.16	0.230	5.84	POLY BAGS	-	NO		
86503-YYY	0.470	11.94	0.120	3.05	0.250	6.35	POLY BAGS	-	NO		
86581-YYY	0.450	11.43	0.120	3.05	0.230	5.84	POLY BAGS	NOTE 8	NO		
86817-YYY	0.925	23.50	0.120	3.05	0.705	17.91	POLY BAGS	-	NO		
86827-YYY	0.700	17.78	0.120	3.05	0.480	12.19	POLY BAGS	-	NO		
86832-YYY	0.525	13.34	0.100	2.54	0.325	8.26	POLY BAGS	-	NO		
86834-YYY	1.335	33.91	0.585	14.86	0.650	16.51	POLY BAGS	-	NO		
86836-YYY	0.870	22.10	0.120	3.05	0.650	16.51	POLY BAGS	-	NO		
86837-YYY	0.600	15.24	0.120	3.05	0.380	9.65	POLY BAGS	-	NO		
87037-YYY	1.240	31.50	0.120	3.05	1.020	25.91	POLY BAGS	-	NO		
87052-YYY	0.990	25.15	0.120	3.05	0.770	19.56	POLY BAGS	-	NO		
87203-YYY	0.545	13.84	0.150	3.81	0.295	7.49	POLY BAGS	-	NO		
87344-YYY	1.375	34.93	0.219	5.56	1.056	26.82	POLY BAGS	-	NO		NOTE 1,13

NOTE 1,13

NOTE 1,13

mat'l. code NOTE 2 & 3						surface ISO 1302 ✓			tolerance ISO 406 ISO 1101			projection 			product family BERGSTIK								
ltr	ecn no	dr	date			tolerances unless otherwise specified									INCH/MM scale 2:1			title BERGSTIK II HEADER D/R .100/2.54cc STRAIGHT					
DG						angles		linear															
								$\pm .01 / \pm .3$															
								$\pm .005 / \pm .13$															
						$0^\circ \pm 2'$		$\pm .002 / \pm .051$															
						dr		T.BREWBAKER		12/21/94		FCI 			dwg no		sheet 6 of 8		size				
						engr		T.HANNA		12/21/94					67996				A3				
						chr		J.MURPHY		12/21/94													
						appd		T.HANNA		12/21/94													
sheet index		revision sheet																					

form: A3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465
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