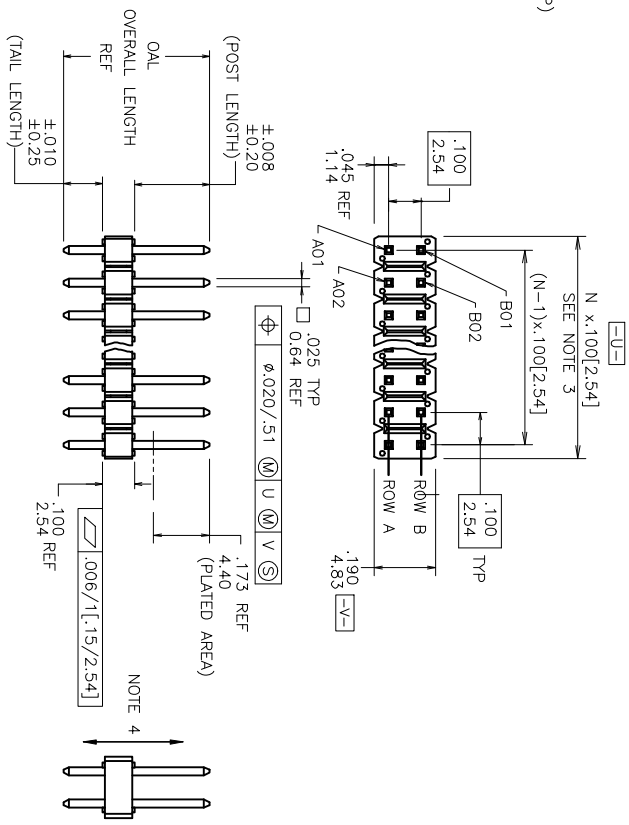
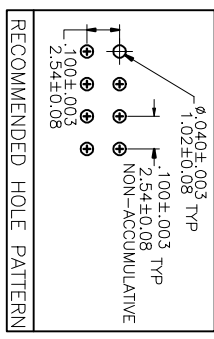


PRODUCT NUMBER
54102 - X XX - XX - XXX X LF

LEAD FREE
 NOTE 12 & 13
 RETENTION
 R = RETENTIVE LEG, SEE NOTES 5 & 7
 POLARIZATION SEE NOTES 7 & 8
 BERGSTIK PER ROW, 01 to 36
 BERGSTIK POSITIONS PER REEL, 00=45,000 (BERGSTRIIP) POSITIONS PER REEL, 00=45,000 (BERGSTRIIP) PIN STYLES 6,8,10,30 & 32 ONLY.

PIN STYLE	POST	TAIL	OAL
05	0.230/5.84	0.095/2.41	0.425/10.80
06	0.230/5.84	0.110/2.79	0.440/11.18
08	0.230/5.84	0.120/3.05	0.450/11.43
10	0.230/5.84	0.150/3.81	0.480/12.19
12	0.230/5.84	0.300/7.62	0.630/16.00
30	0.318/8.08	0.120/3.05	0.538/13.67
32	0.318/8.08	0.150/3.81	0.558/14.43
34	0.318/8.08	0.212/5.38	0.630/16.00

PLATING:
 S=150"/0.38um GOLD ON CONTACT AREA
 G=100"/2.54um TIN ON TAIL (NOTE 16)
 G=50U/0.76um GOLD ON CONTACT AREA
 T=100"/2.54um TIN ON TAIL (NOTE 16)
 T=100-160U/2.54-4.06um TIN ON CONTACT AREA AND ON TAIL (SEE NOTE 11 & 15).



mat'l code	surface	tolerance	projection	product family
SEE NOTES 1 & 2	ISO 302	ISO 100		BERGSTIK
Ufr	ecm no	dr	date	
M	M06-0268	WHT	7/17/06	
L	M06-0348	MHT	9/04/06	
N	M07-0247	ACS	5/28/07	
P	M07-0337	MHT	7/23/07	
R	M08-0237	MHT	8/25/08	
S	M08-0278	MHT	9/30/08	
T	M09-0090	WHT	6/19/09	
Sheet	Revision	T	T	
Index	Sheet	1	2	

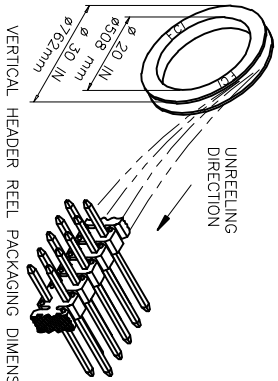
linear	angular	concentricity	parallelism	perpendicularity	profile	runout
XXX/000/XXX/000	MM/0.03	MM/0.05/MM/0.13				

dwg no	sheet	of	size
54102	1	2	A3

Type	Product	Customer	Drawing

NOTES:

- ① BERGSTIK /BERGSTRIIP HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. U94V-0 COLOR: BLACK OR MINERAL FILLED LCP FLAME RETARDENT PER UL-94V-0. COLOR: BLACK.
- ② PIN MATERIAL: PHOSPHOR-BRONZE
- ③ TO DETERMINE DIMENSIONS:
N = NUMBER OF POSITIONS PER ROW. EXAMPLE: 10 POS., N x .100[2.54]=1.00[25.40].
- ④ 2LBS/0.9KG MIN. PIN RETENTION IN EITHER DIRECTION
- ⑤ RETENTIVE LEG APPLICABLE TO TAIL LENGTH OF .120/3.05 ONLY. RETENTION IS APPLIED TO TWO PINS PER PART. ADJACENT TO ONE ANOTHER. 5lb/2.3kg MAX. INSERTION FORCE AND .25lb/1kg MIN RETENTION FORCE PER RETENTIVE PIN USING .062/1.57 THICK CIRCUIT BOARD AND RECOMMENDED HOLE PATTERN. RETENTIVE LOCATION AT THE DISCRETION OF THE MANUF. OMIT FROM PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.
- ⑥ BERGSTIK PACKAGED IN POLY BAGS. BERGSTRIIP PACKAGED PER REEL.
- ⑦ POLARIZATION AND RETENTION NOT APPLICABLE TO BERGSTRIIP.
- ⑧ FOR POLARIZATION SPECIFY POSITION NUMBER (i.e., A03=ROW A POS. 3) TO OMIT PIN. OMIT FROM PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.
- ⑨ UNDERPLATING: 50u"/1.27um NI.
- ⑩ POSITIONS PER ROW 37 TO 50 CAN BE PRODUCED, BUT FLATNESS AND CURVATURE MAY NOT BE HELD TO PRINT SPECIFICATION.
- ⑪ PIN TIPS ON TIN PLATED PRODUCT MAY HAVE BARE METAL ON TWO SIDES, BOTH ENDS.
- ⑫ PART NUMBERS WITH "L" AT THE END ARE LEAD FREE.
- ⑬ THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- ⑭ THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW OVEN. SEE APPLICATION NOTES/PROCEDURES IF THEY ARE AVAILABLE OR FOR 15 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.5mm MINIMUM THICK CIRCUIT BOARD.
- ⑮ "THIS PRODUCT HAS 100% PURE TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."
- ⑯ PLATING OPTIONS:
MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.



NOTE 8

Cross Reference

CORE RANGE	EXTENDED RANGE
77313-101-XXLF	54102-G05XXLF
77313-801-XXLF	54102-S05XXLF
77313-118-XXLF	54102-G08XXLF
77313-818-XXLF	54102-S08XXLF

mat'l code		surface		tolerance		projection		product family	
tin	ecm no	ISO 1802	ISO 1406	ISO 1406	ISO 1406	ISO 1406	ISO 1406	BERGSTIK	
T		observes unless otherwise specified		observes unless otherwise specified		observes unless otherwise specified			
		angles	linearf	XXX±.01/0.3	XXX±.005/0.13	INCH/MM	Scale - 1:1	title	
		0°±2'	XXXX±.0020/0.005					.100 UNSHROUDED HDR.	
		dr	D:INCRAM	05/16/99				D/R THRU HOLE	
		engr	H:SUNDY	07/21/99				sheet no	54102
		dr	H:SUNDY	07/21/99				sheet 2 of 2 size	A3
		appr	H:SUNDY	07/21/99				type	Product Customer Drawing
sheet	revision								
index	sheet								