

PRODUCT NUMBER

54102 - X XX XX XXX X X LF

LEAD FREE  
NOTE 12 & 13

PACKAGE  
SEE NOTES 6

RETENTION

POLARIZATION SEE NOTES 5 & 7

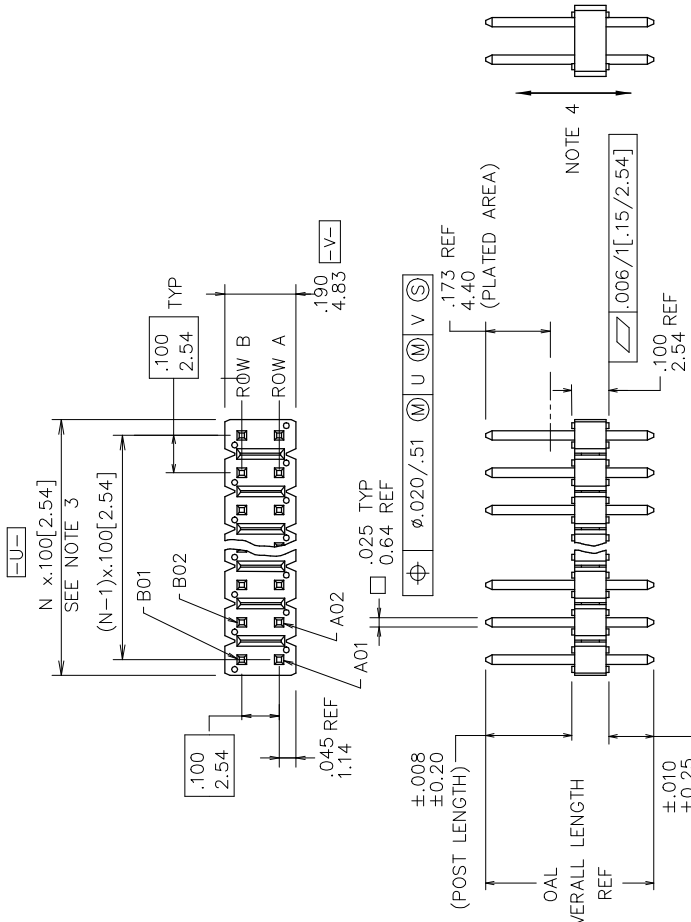
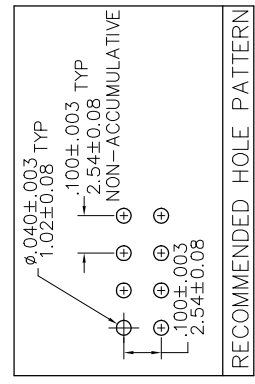
R = RETENTIVE LEG, SEE NOTES 5 & 7

BERGSTIK  
POSITIONS PER ROW, 01 to 36  
SEE NOTE 10

BERGSTRIK  
POSITIONS PER REEL, 00=45,000 (BERGSTRIK)  
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	0.568/14.43
34	0.318/8.08	0.212/5.38	0.630/16.00

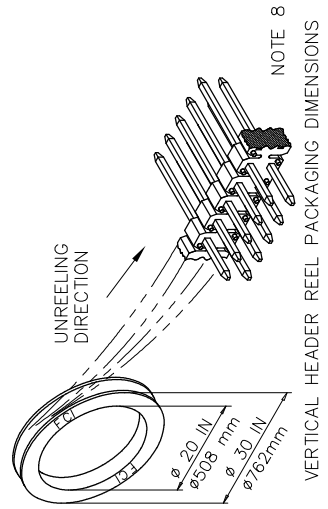
PLATING:  
S=15u" (0.38um GOLD ON CONTACT AREA  
100u"/2.54um TIN ON TAIL (NOTE 16)  
G=30u"/0.76um GOLD ON CONTACT AREA  
100u"/2.54um TIN ON TAIL (NOTE 16)  
T=100-160u"/2.54-4.06um TIN ON CONTACT AREA  
AND ON TAIL (SEE NOTE 11 & 15).



mat'l. code	surface	tolerance	projection	product family
SEE NOTES 1 & 2	ISO 1302	ISO 406 ISO 1101	$\oplus$	BERGSTIK
ltr	ecn no	date	tolerances unless otherwise specified	title
U	ELX-N-37913	MKS 8/5/20	linear	.100 UNSHROUDED HDR.
V	ELX-N-37975	MKS 8/11/20	angles	D/R THRU HOLE
			0°±2°	dwg no
P	M07-0337	MHT 7/23/07	dr	D.INGRAM 05/16/99
R	M08-0237	MHT 8/25/08	engr	H.SUNDY 07/21/99
S	M08-0279	MHT 9/30/08	chr	H.SUNDY 07/21/99
T	M09-0090	MHT 6/19/09	appd	H.SUNDY 07/21/99
sheet	revision	V		
index	sheet	1-2		

NOTES:

- ① BERGSTIK /BERGSTRIIP HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-0 COLOR: BLACK OR MINERAL FILLED LCP FLAME RETARDANT 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/11kg 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 DEFAULT BERGSTIK WITHOUT SUFFIX PACKAGED IN POLY BAGS BERGSTRIIP PACKAGED PER REEL.
- ⑦ PART NUMBERS FOLLOWED BY A "D" ARE PACKAGED IN TAPE/REEL WITHOUT PICKUP CAP.
- ⑧ POLARIZATION AND RETENTION NOT APPLICABLE TO BERGSTRIIP.
- ⑨ 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: 50µ"/1.27µm 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 "LF" 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.



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
ISO 1302	ISO 406 ISO 1101	tolerances unless otherwise specified			BERGSTIK
angles	linear	.XXE0.002/.XXE0.013	INCH/MM	title	
0±2°		.XXE0.002/.XXE0.013	Scale 1:1	.100 UNSHROUDED HDR.	
dr	D.INGRAM	05/16/99		D/R THRU HOLE	
engr	H.SUNDY	07/21/99		dwg no	sheet 2 of 2 size
chr	H.SUNDY	07/21/99		54102	A3
appd	H.SUNDY	07/21/99		type	Product Customer Drawing
sheet index	revision sheet				