

PRODUCT NUMBER

54102 - X XX - XX - XXX X LF

LEAD FREE  
NOTE 12 & 13

RETENTION  
R= RETENTIVE LEG, SEE NOTES 5 & 7

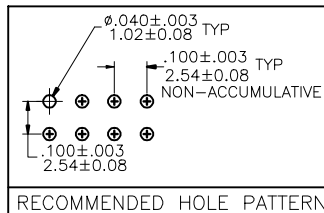
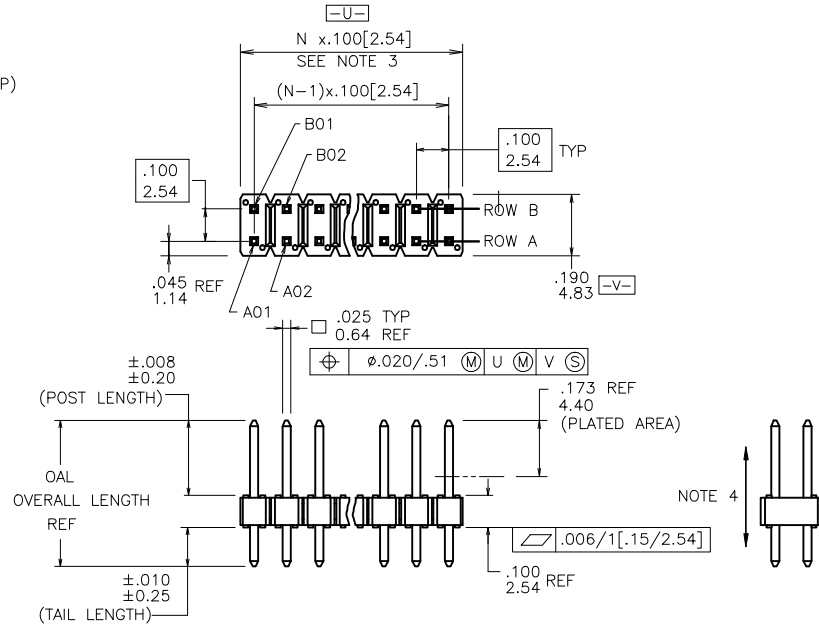
POLARIZATION SEE NOTES 7 & 8

BERGSTIK  
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 SEE NOTES 1 & 2	surface ISO 1302 ✓	tolerance ISO 1101	projection INCH/MM	product family BERGSTIK
ltr L M06-0268 MHT 7/17/06	angles M M06-0346 MHT 9/04/06	linear N M07-0247 AGS 5/28/07	scale 1:1	title .100 UNSHROUDED HDR. D/R THRU HOLE
P M07-0337 MHT 7/23/07	dr R M08-0237 MHT 8/25/08	engr S M08-0279 MHT 9/30/08	chr T M09-0090 MHT 6/19/09	dwg no 54102
sheet index	revision sheet	T T 1 2		sheet 1 of 2 size A3 type Product Customer Drawing



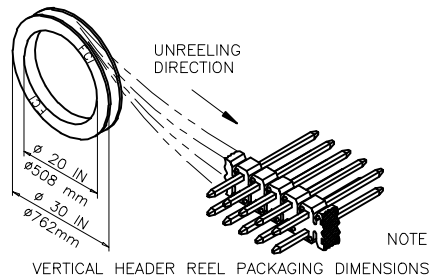
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NOTES:

- ① BERGSTIK /BERGSTRIIP HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-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: 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	ISO 1302	tolerance	ISO 406 ISO 1101	projection	product family	BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified		 INCH/MM	title	
T				angles	linear		.100 UNSHROUDED HDR. D/R THRU HOLE	
				0° ± 2'	.xx ± .01 / 0.3 .xxx ± .005 / 0.13 .xxxx ± .0020 / 0.05	scale	1:1	
		dr	D.INGRAM	05/16/99			dwg no	sheet 2 of 2 size
		enr	H.SUNDY	07/21/99			54102	A3
		chr	H.SUNDY	07/21/99			type Product Customer Drawing	
		appd	H.SUNDY	07/21/99				
sheet index	revision sheet							