

PRODUCT NUMBER

54102 - X XX XX XXX X X LF

LEAD FREE
NOTE 12 & 13

PACKAGE
SEE NOTES 6

RETENTION
R= RETENTIVE LEG, SEE NOTES 5 & 7

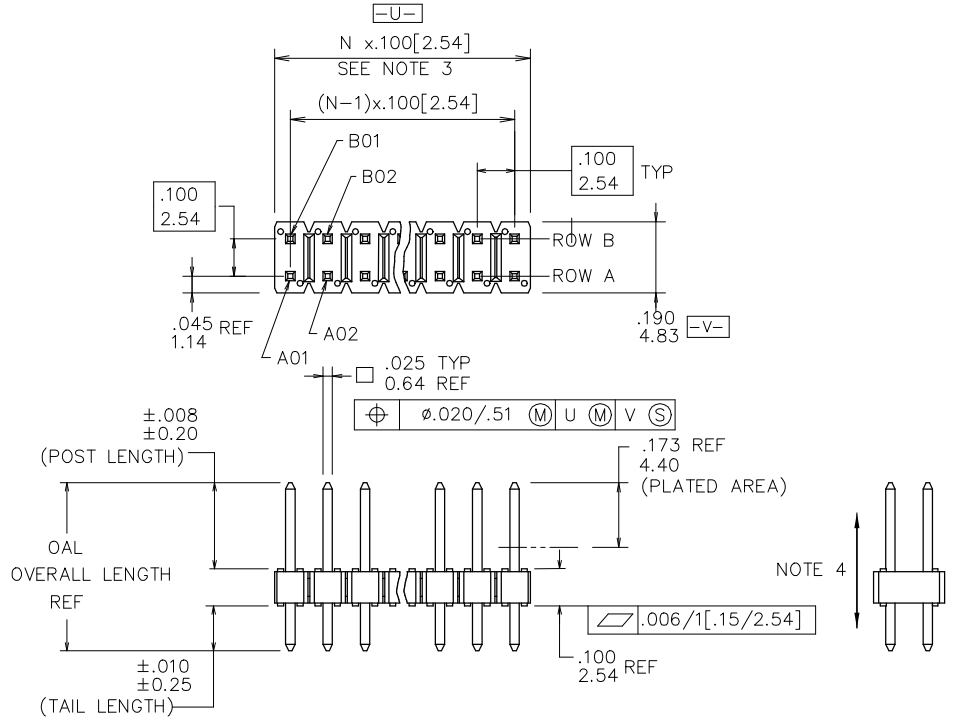
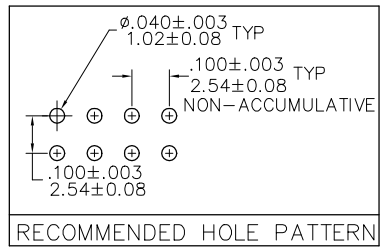
POLARIZATION SEE NOTES 7 & 8

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).



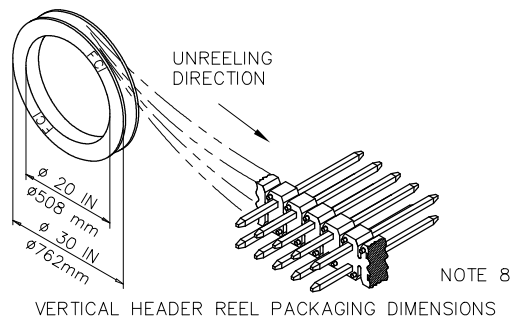
mat'l. code SEE NOTES 1 & 2	surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
ltr ecn no dr date	tolerances unless otherwise specified	linear	scale 1:1	title .100 UNSHROUDED HDR. D/R THRU HOLE
U ELX-N-37913 MKS 8/5/20	angles	.XX±0.01/0.3		dwg no 54102
V ELX-N-37975 MKS 8/11/20	0°±2°	.XXX±0.005/.XX±0.13		sheet 1 of 2 A3
		.XXXX±0.0020/.XXX±0.051		type Product Customer Drawing
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 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., $N \times .100[2.54]=1.00[25.40]$.
- 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. DEFAULT BERGSTIK WITHOUT SUFFIX PACKAGED IN POLY BAGS
BERGSTRIIP PACKAGED PER REEL.
PART NUMBERS FOLLOWED BY A "D" ARE PACKAGED IN TAPE/REEL WITHOUT PICKUP CAP.
- 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: $50\mu"/1.27\mu\text{m}$ 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



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v					angles		linear		.xxx±0.01/0.3 .xxxx±0.005/.xxxx±0.13 .xxxx±0.0020/.xxxx±0.051																	
					0'±2'																					
					dr		D.INGRAM		05/16/99		dwg no					sheet2 of 2 size										
					enrg		H.SUNDY		07/21/99				54102					A3								
					chr		H.SUNDY		07/21/99																	
					appd		H.SUNDY		07/21/99				type					Product Customer Drawing								
sheet index		revision sheet																								