

PRODUCT NUMBER

54102 - X XX - XX - XXX X LF

LEAD FREE
NOTE 12 & 13

RETENTION
R= RETENTIVE LEG, SEE NOTES 5 & 7

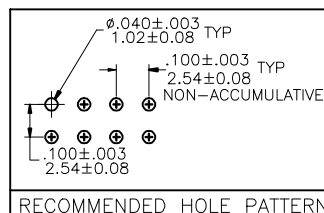
POLARIZATION SEE NOTES 7 & 8

BERGSTIK
POSITIONS PER ROW, 01 to 36
SEE NOTE 10

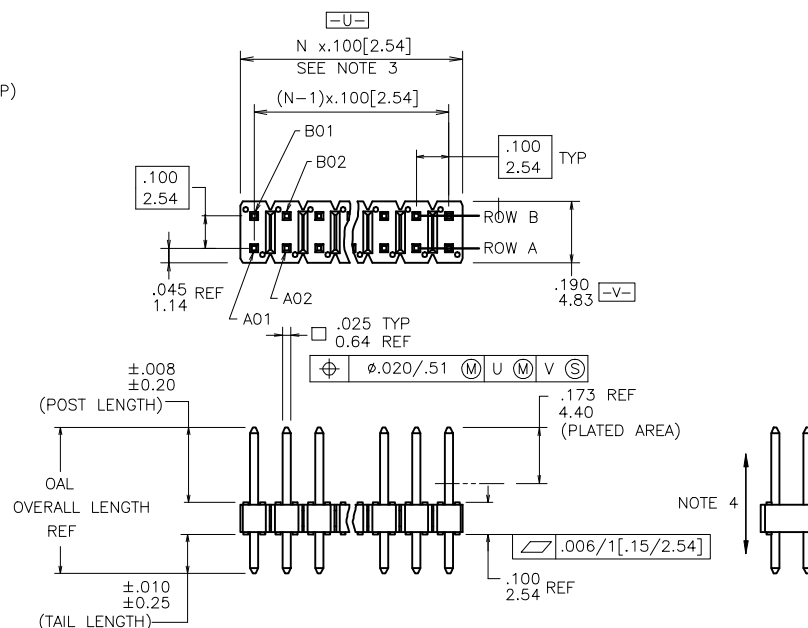
BERGSTRIK
POSITIONS PER REEL, 00=45,000 (BERGSTRIK)
PIN STYLES 6,8,10,30 & 32 ONLY.

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).



RECOMMENDED HOLE PATTERN



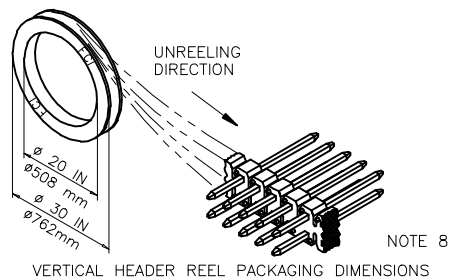
mat'l. code	SEE NOTES 1 & 2	surface	ISO 1902	tolerance	ISO 406	projection	ISO 1901	product family	BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified				title	.100 UNSHROUDED HDR.
L	M06-0268	MHT	7/17/06	angles	linear	XX±.01/.03	INCH/MM	D/R THRU HOLE	
M	M06-0346	MHT	9/04/06			.XXX±.006/XX±0.13			
N	M07-0247	AGS	5/28/07	0'±2'		.XXX±.0020/XXX±0.05	scale 1:1		
P	M07-0337	MHT	7/23/07	dr	D.INGRAM	05/16/99		dwg no	54102
R	M08-0237	MHT	8/25/08	engr	H.SUNDY	07/21/99		sheet 1 of 2	A3
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		type	Product Customer Drawing
sheet	revision	T	T						
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 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	ecr no	dr	date	title
T				.100 UNSHROUDED HDR. D/R THRU HOLE
		angles	linear	INCH/MM
		0° ± 2°	.xxx ± .005/0.13	scale 1:1
		dr	D.INGRAM	05/16/99
		engr	H.SUNDY	07/21/99
		chr	H.SUNDY	07/21/99
		appd	H.SUNDY	07/21/99
sheet index	revision sheet			dwg no 54102
				sheet 2 of 2 size A3
				type Product Customer Drawing