

PRODUCT NUMBER  
54102 - X XX - XX - XXX X

RETENTION  
R= RETENTIVE LEG, SEE NOTES 5 & 7  
POLARIZATION SEE NOTES 7 & 8  
POSITIONS PER ROW, 01 to 36  
SEE NOTE 10  
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	0.568/14.43
34	0.318/8.08	0.212/5.38	0.630/16.00

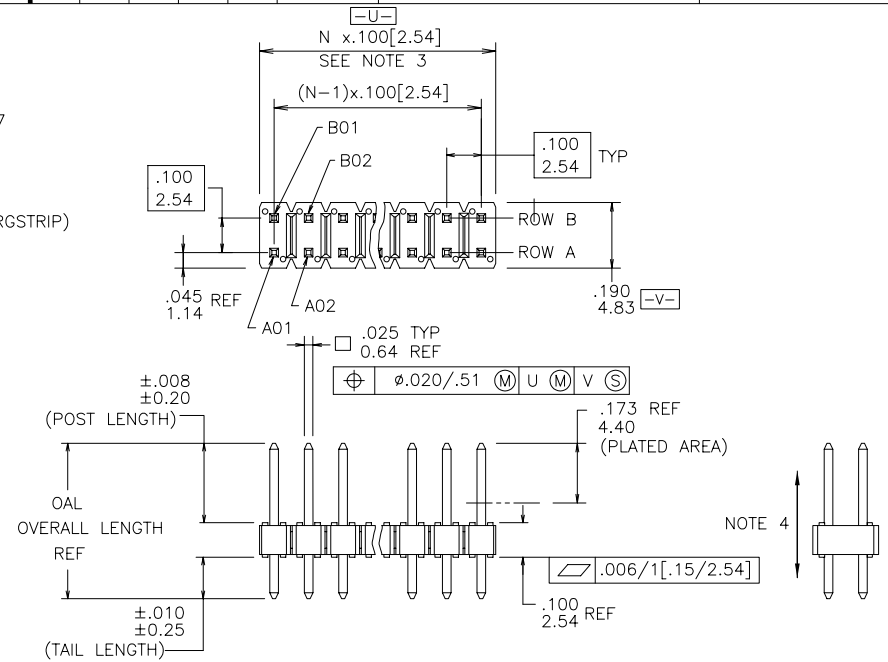
PLATING:  
S=15u"/0.38um GOLD ON CONTACT AREA  
100u"/2.54um TIN ON TAIL  
G=30u"/0.76um GOLD ON CONTACT AREA  
100u"/2.54um TIN ON TAIL  
T=120-160u"/3.0-4.06um TIN ON CONTACT AREA  
AND ON TAIL (SEE NOTE 11).  
F=2u"/0.05um GOLD ON CONTACT AREA  
AND ON TAIL

LEAD FREE 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  
POSITIONS PER ROW, 01 to 36  
SEE NOTE 10  
POSITIONS PER REEL, 00=45,000 (BERGSTRIIP)  
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AND ON TAIL (SEE NOTE 15).  
F=2u"/0.05um GOLD ON CONTACT AREA  
AND ON TAIL



NOTE 4

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		title
G	V21475	GIP	9/17/02	angles linear .xx±.01/0.3	.100 UNSHROUDED HDR. D/R THRU HOLE
H	V21887	TAB	01/02/03	.xxx±.005/0.13	
J	E03-0030	HTB	05/05/03	0°±2'	scale 1:1
K	M05-0118	MHT	6/03/05	dr	D.INGRAM 05/16/99
L	M06-0268	MHT	7/17/06	enrg	H.SUNDY 07/21/99
M	M06-0346	MHT	9/04/06	chr	H.SUNDY 07/21/99
N	M07-0247	AGS	5/28/07	appd	H.SUNDY 07/21/99
sheet	revision	N	N		
index	sheet	1	2		

dwg no 54102 sheet 1 of 2 size A3  
type Product Customer Drawing



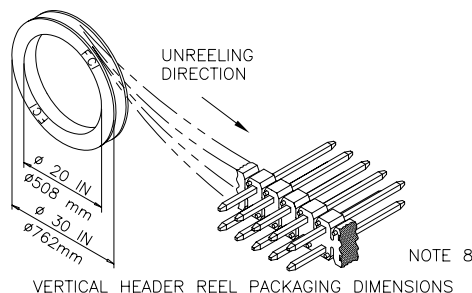
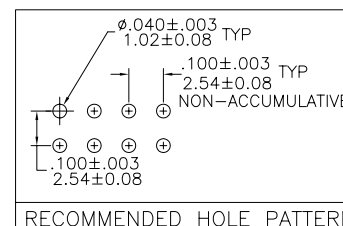
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NOTES:

- ① BERGSTIK /BERGSTRIIP HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-0 COLOR: BLACK
- 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 DEISCRETION 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 TN/LEAD 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."

Bergstrip P/N Cross Reference

CORE RANGE	EXTENDED RANGE
77313-101-00LF	54102-G0500LF
77313-801-00LF	54102-S0500LF
77313-118-00LF	54102-G0800LF
77313-818-00LF	54102-S0800LF



mat'l. code		surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
ltr	ecn	no	dr	date	title .100 UNSHROUDED HDR. D/R THRU HOLE
N		angles		linear	scale 1:1
		0°±2'		.xx±.01/0.3 .xxx±.005/0.13 .xxx±.0020/0.051	dwg no 54102
		dr	D.INGRAM	05/16/99	sheet 2 of 2 size A3
		enr	H.SUNDY	07/21/99	type Product Customer Drawing
		chr	H.SUNDY	07/21/99	
		appd	H.SUNDY	07/21/99	
sheet index	revision sheet				