

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

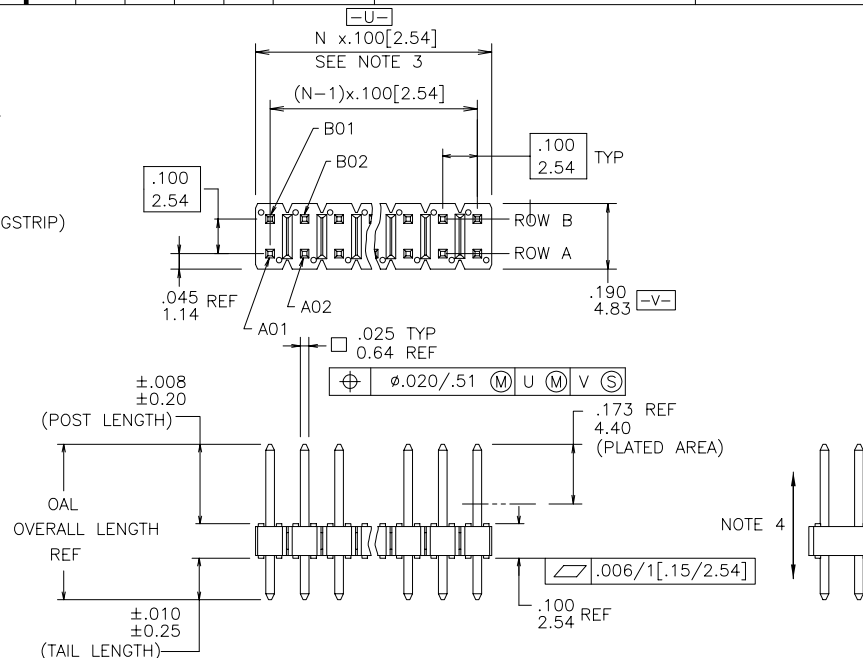
PLATING:
S=15u"/0.38um GOLD ON CONTACT AREA
100u"/2.54um TIN ON TAIL
G=30u"/0.76um GOLD ON CONTACT AREA
100u"/2.54um TIN ON TAIL
T=120-160u"/3.0-4.06um TIN ON CONTACT AREA
AND ON TAIL (SEE NOTE 11).
F=2u"/0.05um GOLD ON CONTACT AREA
AND ON TAIL

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)
PIN STYLES 6,8,10,30 & 32 ONLY.

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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 15)
F=2u"/0.05um GOLD ON CONTACT AREA
AND ON TAIL



mat'l. code	surface	tolerance	projection	product family
SEE NOTES 1 & 2	ISO 1302 ✓	ISO 406 ISO 1101	INCH/MM	BERGSTIK
ltr	ecn	no	dr	date
G	V21475	GIP	9/17/02	
H	V21887	TAB	01/02/03	
J	E03-0030	HTB	05/05/03	0°±2'
K	M05-0118	MHT	6/03/05	dr
L	M06-0268	MHT	7/17/06	enr
M	M06-0346	MHT	9/04/06	chr
N	M07-0247	AGS	5/28/07	appd
revision	N	N		
sheet	1	2		
index				

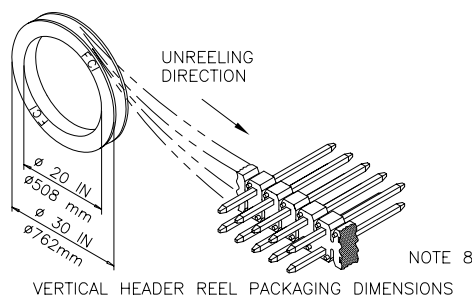
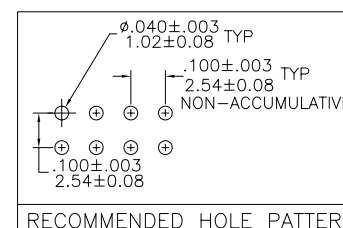
tolerances unless otherwise specified	linear	angular	scale 1:1	title
.XX±.01/0.3	.XXX±.005/0.13	.XXX±.0020/0.051	INCH/MM	.100 UNSHROUDED HDR. D/R THRU HOLE
dwg no	sheet 1 of 2	size		
54102	A3			
type	Product	Customer	Drawing	

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	tolerances unless otherwise specified				
N					angles	linear	.XX±.01/0.3	title .100 UNSHROUDED HDR. D/R THRU HOLE	
					0°±2'		.XXX±.005/0.13	scale 1:1	
					dr	D.INGRAM	05/16/99	dwg no	
					enr	H.SUNDY	07/21/99	sheet 2 of 2	
					chr	H.SUNDY	07/21/99	size A3	
					appd	H.SUNDY	07/21/99	type Product Customer Drawing	
sheet index	revision sheet								