

PRODUCT NUMBER
54102 - X XX - XX - XXX X LF

LEAD FREE
NOTE 12 & 13

RETENTION

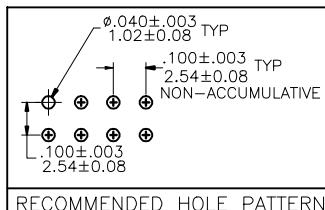
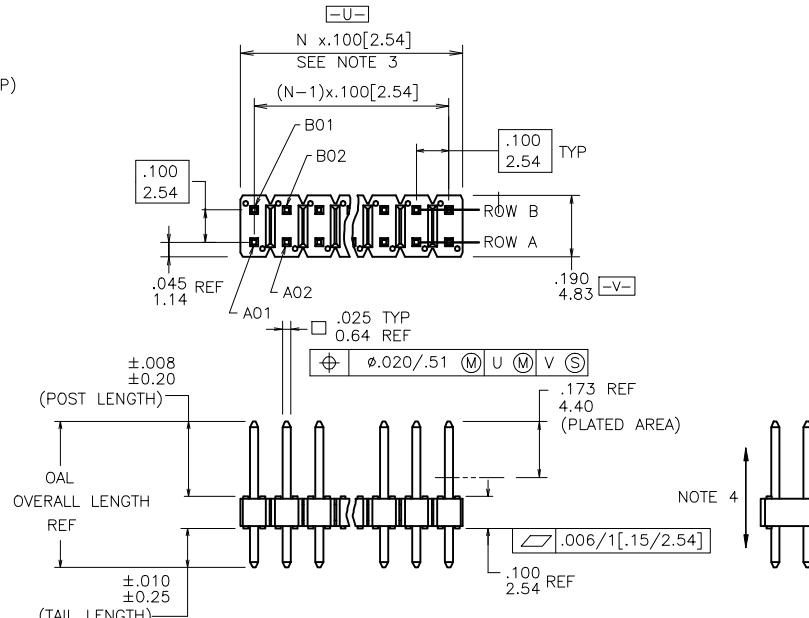
R= RETENTIVE LEG, SEE NOTES 5 & 7
Polarization SEE NOTES 7 & 8

BERGSTIK
POSITIONS PER ROW, 01 to 36
SEE NOTE 10

BERGSTRIp
POSITIONS PER REEL, 00=45,000 (BERGSTRIp)
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

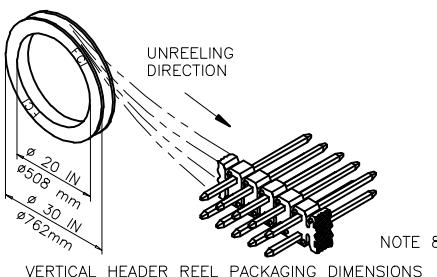
PLATING:
S=15 μ "/0.38um GOLD ON CONTACT AREA
100 μ /2.54um TIN ON TAIL (NOTE 16)
G=30 μ /0.76um GOLD ON CONTACT AREA
100 μ /2.54um TIN ON TAIL (NOTE 16)
T=100-160 μ /2.54-4.06um TIN ON CONTACT AREA
AND ON TAIL (SEE NOTE 11 & 15).



part no	material code	surface	tolerance	projection	product family
	SEE NOTES 1 & 2	ISO 1802	✓	ISO 406	BERGSTIK
lfr	ecn no	dr	date	tolerances unless otherwise specified	title
L	M06-0268	MHT	7/17/06	.XX±.01/0.3	.100 UNSHROUDED HDR.
M	M06-0346	MHT	9/04/06	XXX±.005/XXX±.013	D/R THRU HOLE
N	M07-0247	AGS	5/28/07	XXXX±.0020/XXXX±.005	
P	M07-0337	MHT	7/23/07	dr	dwg no
R	M08-0237	MHT	8/25/08	engr	sheet
S	M08-0279	MHT	9/30/08	chr	size
T	M09-0090	MHT	6/19/09	appd	54102
sheet	revision	T	T		A3
index	sheet	1	2		

NOTES:

- ① BERGSTIK /BERGSTRIP HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-0 COLOR: BLACK OR MINERAL FILLED LCP FLAME RETARDANT 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. BERGSTRIP PACKAGED PER REEL.
7. POLARIZATION AND RETENTION NOT APPLICABLE TO BERGSTRIP.
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 μ /1.27 μ 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

mat'l. code			surface	tolerance	projection	product family
lfr	ecn no	dr	ISO 1302	ISO 406 ISO 1101		BERGSTIK
T				.XX±.01/0.3	INCH/MM	
				XXX±.005/0.13		
				XXXX±.0020/0.05	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				

FCI

.100 UNSHROUDED HDR.
D/R THRU HOLE

dwg no 54102 sheet 2 of 2 size A3

type Product Customer Drawing

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[FCI / Amphenol:](#)

[54102-S0807LF](#) [54102-S0504LF](#) [54102-S08-18LF](#)