

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

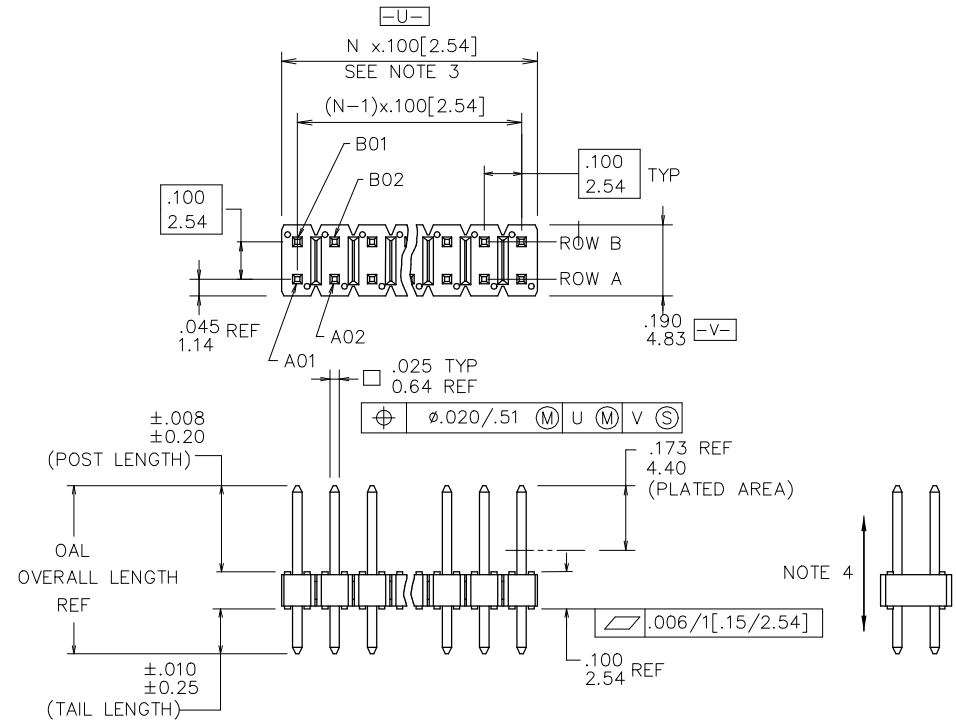
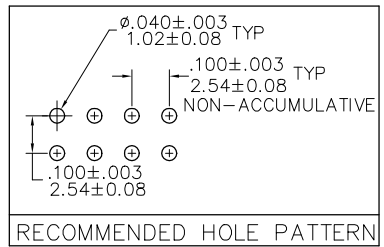
POLARIZATION SEE NOTES 7 & 8

BERGSTIK
POSITIONS PER ROW, 01 to 36
SEE NOTE 10

BERGSTRIIP
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 (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	
U	ELX-N-37913	MKS	8/5/20	tolerances unless otherwise specified		title .100 UNSHROUDED HDR. D/R THRU HOLE		sheet 1 of 2	
V	ELX-N-37975	MKS	8/11/20	angles	linear	scale 1:1		size A3	
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		type Product Customer Drawing	
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							

Amphenol FCI

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NOTES:

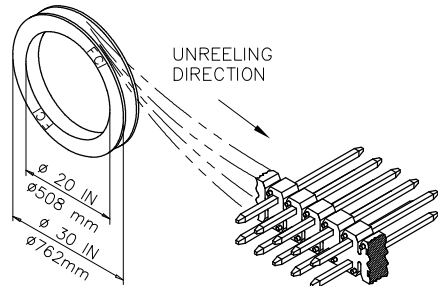
- ① BERGSTIK /BERGSTRIIP HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-0 COLOR: BLACK OR MINERAL FILLED LCP FLAME RETARDENT PER UL-94V-0. COLOR: BLACK.
- ② PIN MATERIAL: PHOSPHOR-BRONZE
- ③ TO DETERMINE DIMENSIONS:
N = NUMBER OF POSITIONS PER ROW. EXAMPLE: 10 POS., N x .100[2.54]=1.00[25.40].
- 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 DEISCRETION 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: 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

Amphenol FCI

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NOTE 8

VERTICAL HEADER REEL PACKAGING DIMENSIONS

mat'l. code		surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection ⊕	product family BERGSTIK
ltr	ecn no	dr	date	title	
v				.100 UNSHROUDED HDR. D/R THRU HOLE	
tolerances unless otherwise specified				INCH/MM	
angles		linear		scale 1:1	
0°±2'		.xxx±0.01/0.3		dwg no	
		.xxx±0.005/.xx±0.13		sheet 2 of 2	
		.xxx±0.0020/.xxx±0.051		size	
dr	D.INGRAM	05/16/99	Amphenol FCI		
enr	H.SUNDY	07/21/99	54102		
chr	H.SUNDY	07/21/99	A3		
appd	H.SUNDY	07/21/99	type Product Customer Drawing		
sheet index	revision sheet				

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