



PRODUCT NUMBER

5 4 2 0 2 - X X X X - X X X LF

PLATING

S=15μ"[0.38μm]
ON CONTACT AREA100μ"[2.5μm]TIN
ON TAIL(NOTE 13)G=30μ"[0.76μm]
ON CONTACT AREA
100μ"[2.5μm]TIN
ON TAIL(NOTE 13)T=100μ"[2.5μm]TIN
ON CONTACT AREA
AND ON TAIL(SEE NOTE 11)F=2μ"[0.05μm]GOLD
ON CONTACT AREA
AND ON TAIL

LEAD FREE OPTION NOTE 9 & 10

POLARIZATION
NOTE 6

PACKAGING TYPE, NOTE 5

POSITIONS PER ROW
02 TO 20

LEAD STYLE	POST	TAIL OVERALL WIDTH	PCB LAYOUT
08 30	0.230/5.84 0.318/8.08	.290 ^{+0.015} _{-0.017} / 7.37 ^{+0.38} _{-0.43}	FIGURE 1
60	0.575/14.60	.374 ^{+0.015} _{-0.017} / 9.50 ^{+0.38} _{-0.43}	FIGURE 2

NOTES:

- ① HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC.
FLAME RETARDANT PER UL 94V-0
COLOR: BLACK

OR
MINERAL FILLED LCP FLAME RETARDANT
PER UL-94V-0. COLOR: BLACK.

THESE PART NUMBERS WILL WITHSTAND EXPOSURE
TO 260 C PEAK TEMPERATURE FOR 20 SECONDS IN
WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

- ② PIN MATERIAL: PHOSPHOR-BRONZE
- ③ TO DETERMINE DIMENSIONS:
N = NUMBER OF POSITIONS ROW.
EXAMPLE: 10 POS., N x .100/2.54=.100/25.4
- ④ 2LBS/0.9KG MIN. PIN RETENTION IN EITHER DIRECTION.
- ⑤ PACKAGING: NONE =POLY BAGS WITHOUT PICKUP CAP.
T =TUBES (OMIT DASH IF NOT POLARIZED).
P =TUBES WITH PICKUP CAPS.
A =TAPE AND REEL WITH PICKUP CAPS.
C =CUSTOMIZED TAPE AND REEL WITH PICKUP CAPS.
D =TAPE AND REEL WITHOUT PICKUP CAPS.
- ⑥ FOR POLARIZATION, SPECIFY POSITION NUMBER
(i.e. A03=ROW A POS. 3) TO OMIT PIN.
OMIT FROM PRODUCT NUMBER IF THIS FEATURE IS NOT APPLICABLE.
PRODUCT MANAGEMENT APPROVAL REQUIRED PRIOR TO RELEASE
OR SALE OF POLARIZED PRODUCTS.

7. UNDERPLATING: 50μ"/1.2μm Ni.

8. PIN TIPS ON Sn PLATED PRODUCT MAY HAVE BARE METAL ON TWO SIDES,
BOTH ENDS.

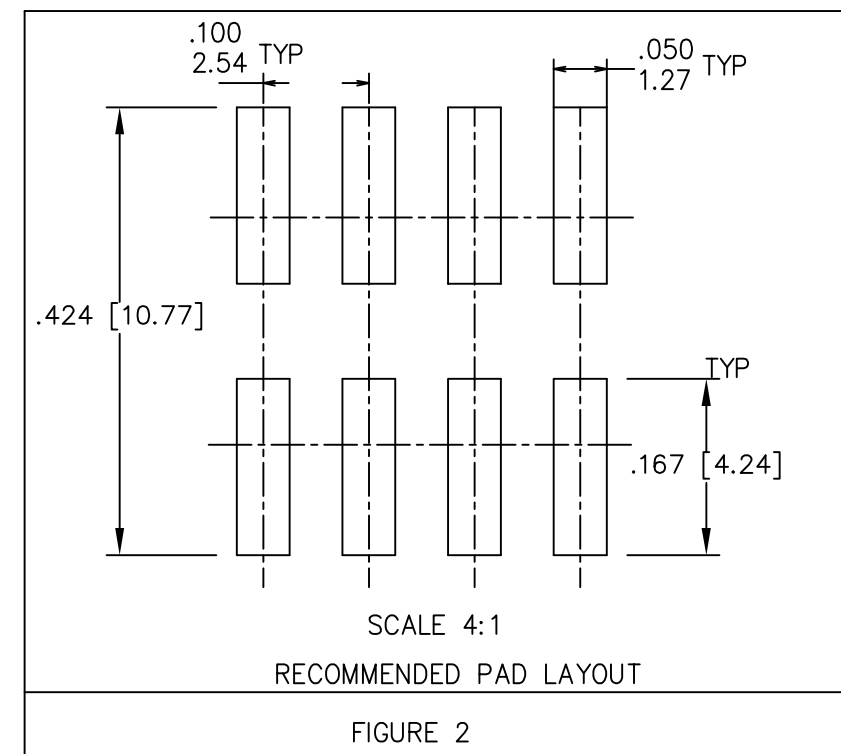
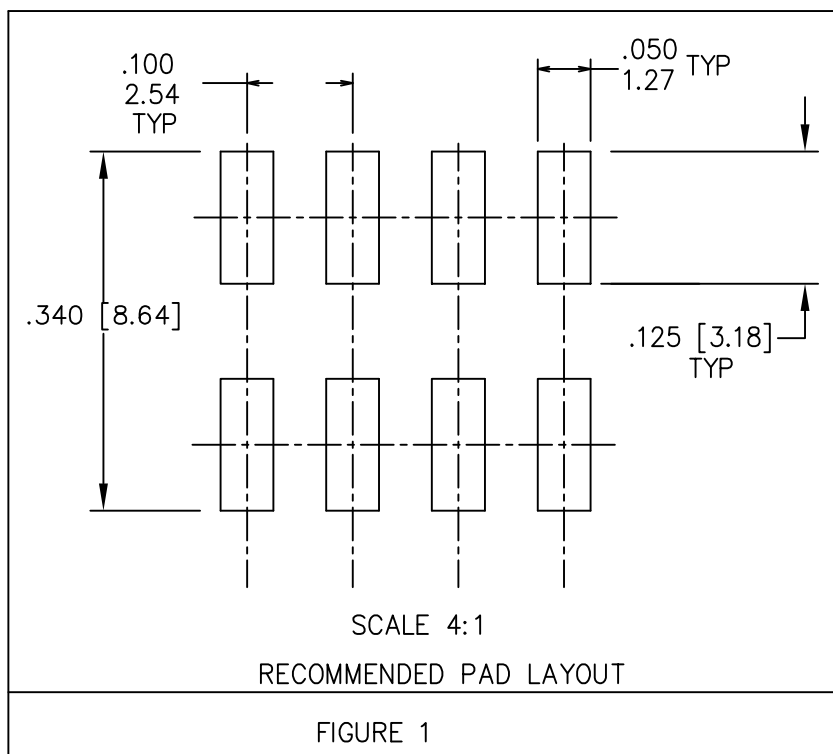
⑨ PART NUMBERS WITH "LF" SUFFIX AT THE END ARE LEAD FREE.

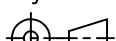
⑩ THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.

⑪ "THIS PRODUCT HAS 100% PURE TIN PLATING IN THE INTERFACE AND
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT
ENVIRONMENTS."

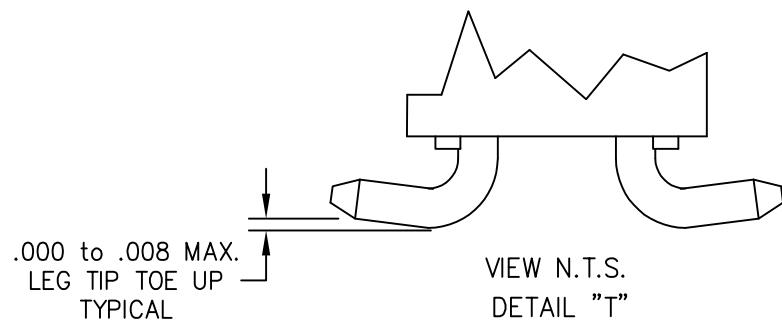
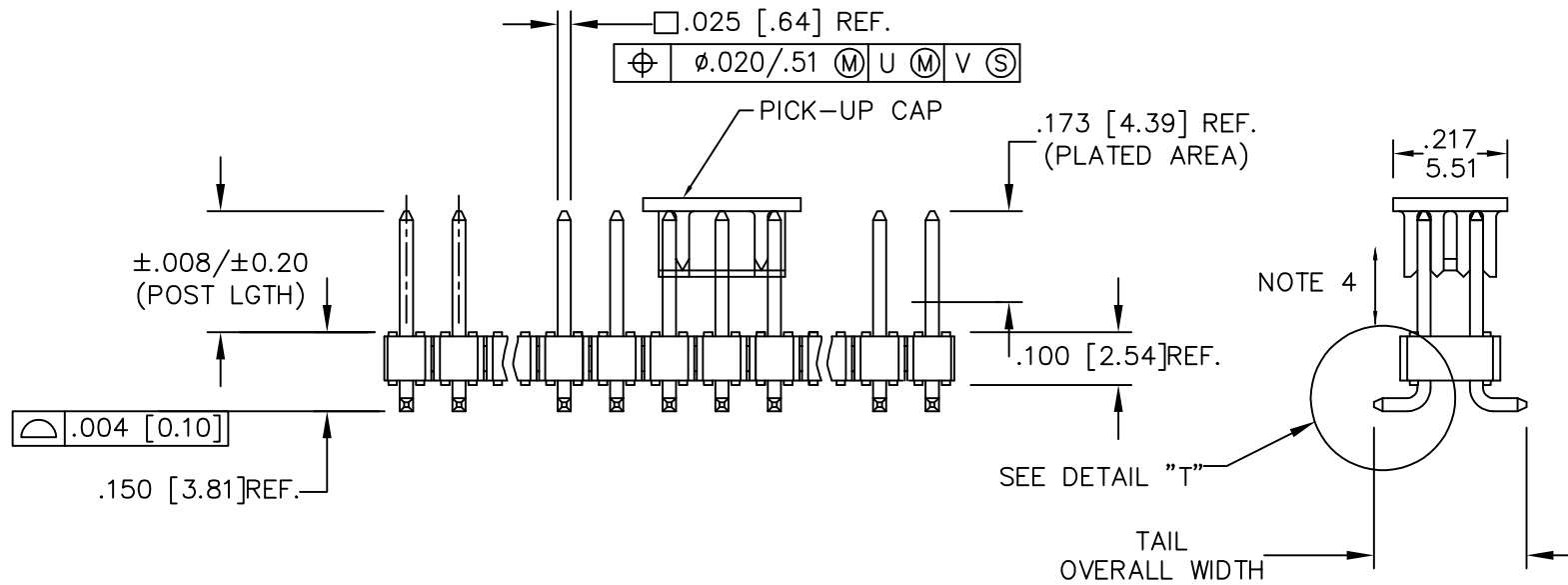
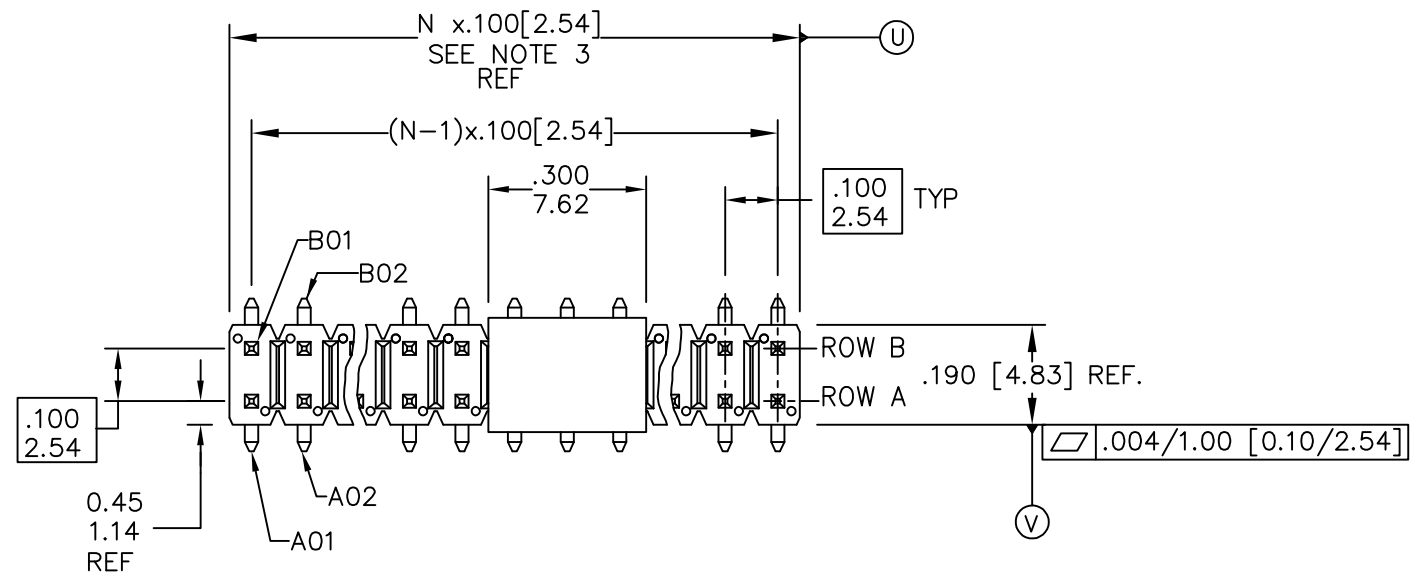
12. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE
FOR 20 SECONDS IN A CONVECTION, INFRA-RED OR VAPOR PHASE REFLOW
OVEN. SEE APPLICATION NOTES/PROCEDURES IF THEY ARE AVAILABLE.

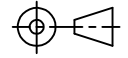
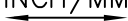
⑬ MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION



mat'l. code SEE NOTES 1&2				surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK												
ltr	ecn no	dr	date	tolerances unless otherwise specified							title .100 UNSHROUDED HDR DUAL ROW VERT. SMT.											
W	EXL-N-12227	JZ	2012-07-15	angles	linear	.XX±01/.X±0.3																
X	ELX-N-14748	ZK	2013-05-14			.XXX±005/.XX±0.13																
Y	ELX-N-19883	JH	2015-01-15			.XXX±0020/.XXX±0.051																
AA ELX-N-21232 MZ				2015-06-25		dr	D.INGRAM		1999-05-17		dwg no					sheet 1 of 3			size			
						enr	H.SUNDAY		1999-07-21		54202					A3						
						chr	H.SUNDAY		1999-07-21													
						appd	H.SUNDAY		1999-07-21													
sheet index		revision sheet		AA	AA	AA													type Product Customer Drawing			
				1	2	3																

PRODUCT NUMBER
SEE SHEET 1



mat'l. code SEE NOTES 1&2					surface ISO 1302 ✓			tolerance ISO 406 ISO 1101		projection 		product family BERGSTIK												
ltr	ecn	no	dr	date	tolerances unless otherwise specified										title .100 UNSHROUDED HDR DUAL ROW VERT. SMT.									
AA					angles linear			.XX±01/X±0.3		INCH/MM 		dwg no sheet2 of 3 54202 size A3												
						.XXX±005/XX±0.13																		
				0°±2°		.XXXX±0020/XXX±0.051																		
					dr	D.INGRAM		1999-05-17				type Product Customer Drawing												
				enr	H.SUNDAY		1999-07-21																	
				chr	H.SUNDAY		1999-07-21																	
				appd	H.SUNDAY		1999-07-21																	
sheet index		revision sheet																						



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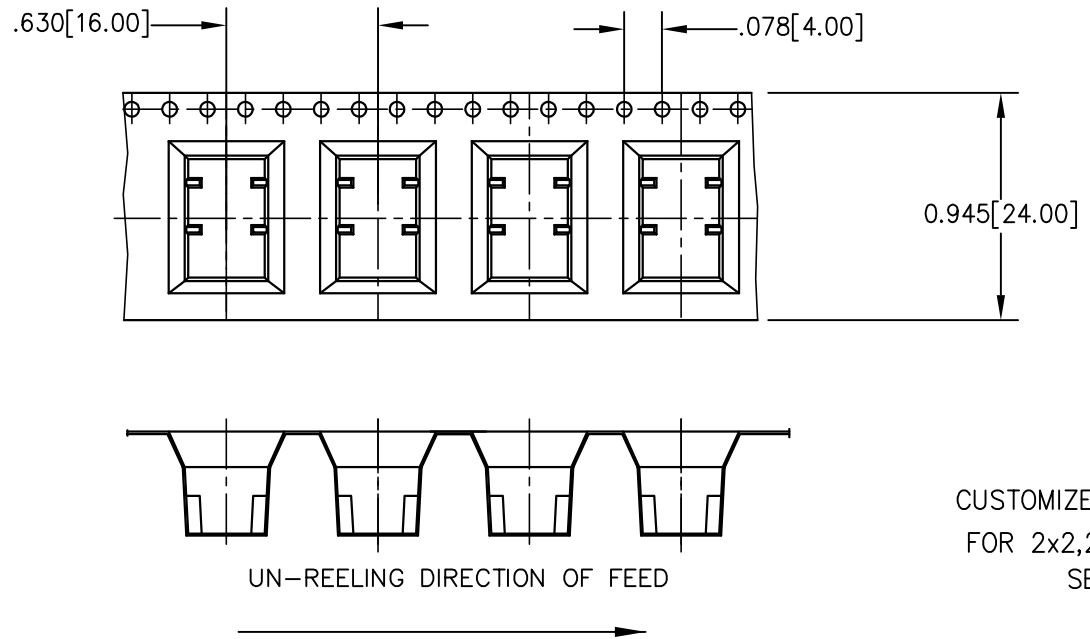
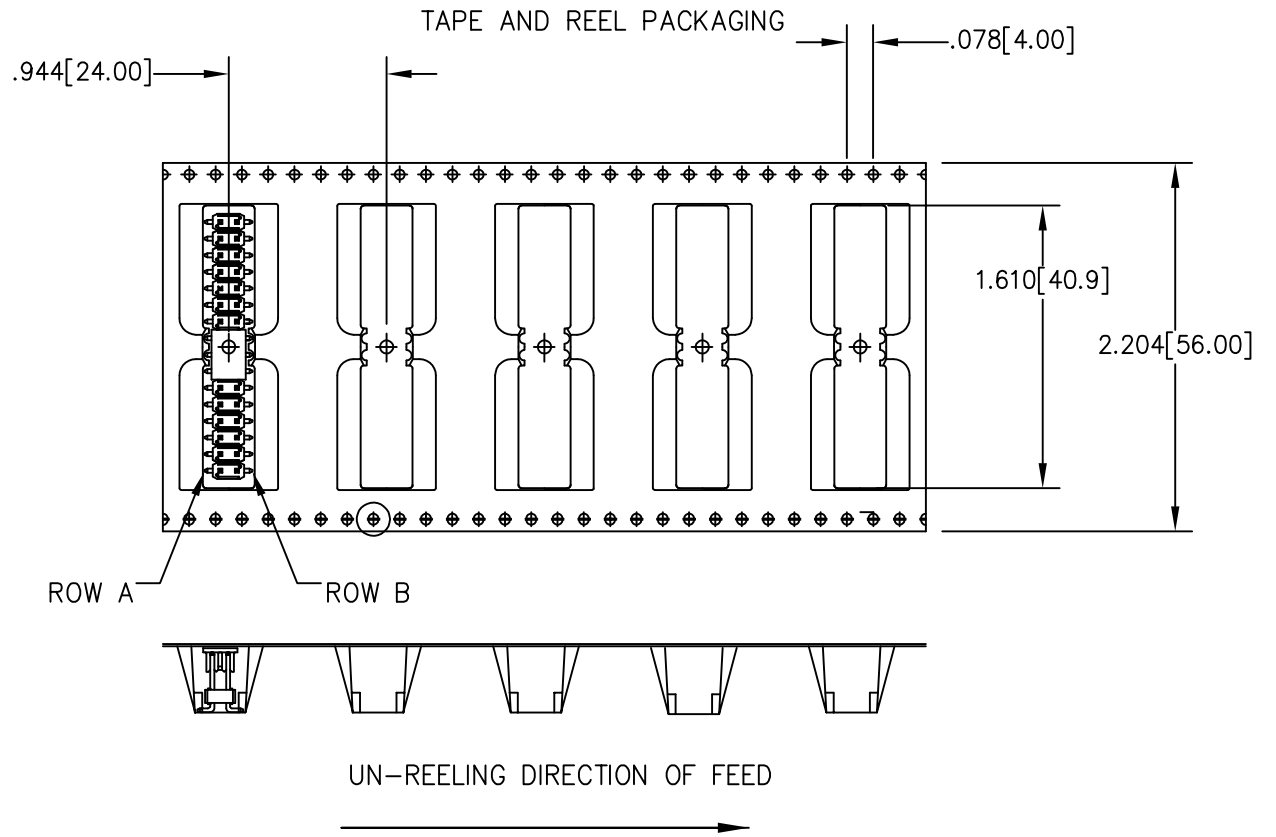
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TAPE AND REEL PACKAGING

SIZE	LEAD STYLE 08 POST (0.230 [5.84])	LEAD STYLE 30 POST (0.318 [8.08])
2X2	YES	YES
2X3	YES	
2X4	YES	YES
2X5	YES	
2X6	YES	
2X7	YES	YES
2X8	YES	
2X9	YES	
2X10	YES	
2X11	YES	
2X12	YES	YES
2X13	YES	
2X14	YES	
2X15	YES	
2X16	YES	YES
2X17	YES	
2X18	YES	
2X19	YES	
2X20	YES	

Cross Reference

CORE RANGE	EXTENDED RANGE
54202-X08XXLF	95278-X01-XXLF
54202-X30XXLF	95278-X02-XXLF



CUSTOMIZED CARRIER TAPE
FOR 2x2,2x3,2x4,2x5 SIZE.
SEE NOTE 5

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			
AA					angles	linear	.100 UNSHROUDED HDR DUAL ROW VERT. SMT.			
					0°±2°		scale 1:1			
					dr	D.INGRAM	1999-05-17	dwg no		sheet3 of 3
					enr	H.SUNDAY	1999-07-21	54202		A3
					chr	H.SUNDAY	1999-07-21			
					appd	H.SUNDAY	1999-07-21			
sheet index	revision sheet							type		Product Customer Drawing