

PRODUCT NUMBER  
5 4 2 0 2 - X X X X X - X X X LF

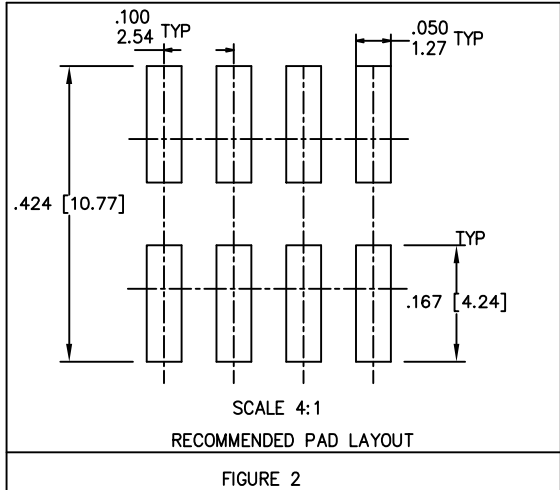
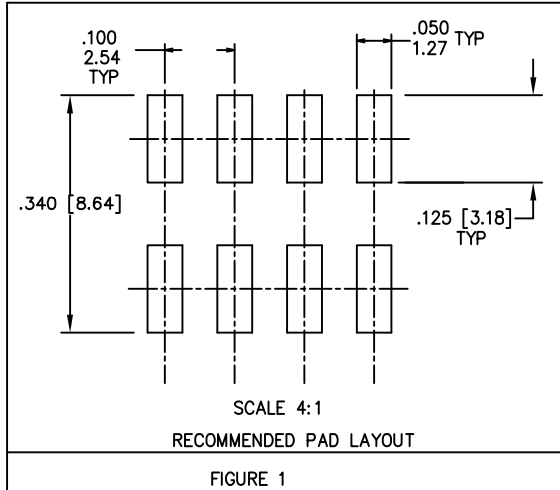
PLATING  
S=15μ"[0.38μm]  
ON CONTACT AREA  
100μ"[2.5μm]TIN  
ON TAIL(NOTE 13)  
G=30μ"[0.76μm]  
ON CONTACT AREA  
100μ"[2.5μm]TIN  
ON TAIL(NOTE 13)  
T=100μ"[2.5μm]TIN  
ON CONTACT AREA  
AND ON TAIL(SEE NOTE 11)  
F=2μ"[0.05μm]GOLD  
ON CONTACT AREA  
AND ON TAIL

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 <sup>+0.015</sup> <sub>-0.017</sub> / 7.37 <sup>+0.38</sup> <sub>-0.43</sub>	FIGURE 1
60	0.575/14.60	.374 <sup>+0.015</sup> <sub>-0.017</sub> / 9.50 <sup>+0.38</sup> <sub>-0.43</sub>	FIGURE 2

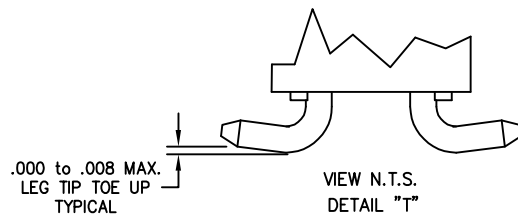
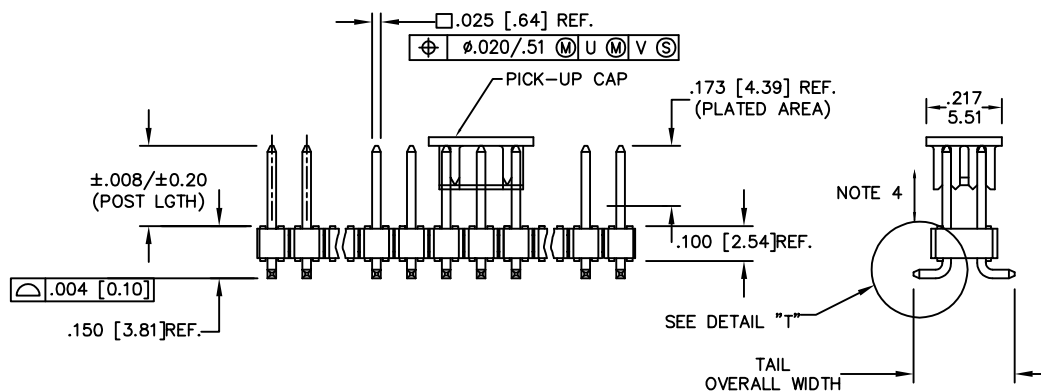
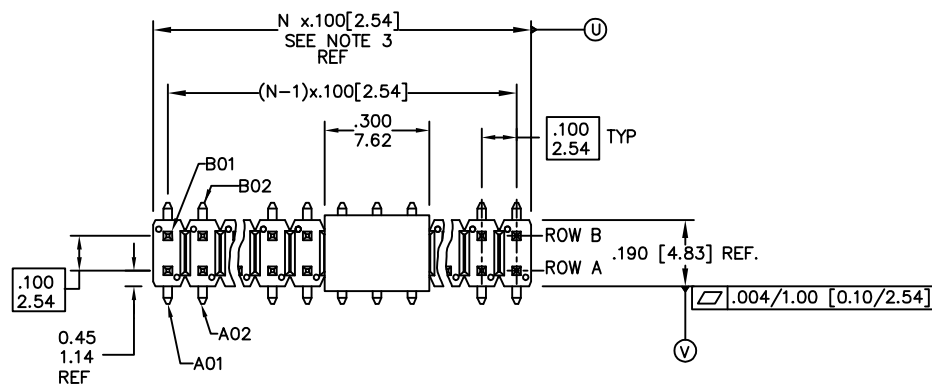
NOTES:

- 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=1.00/25.4
- 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.  
S =SPECIAL REQUEST OF TAPE AND REEL WITH PICKUP CAPS.  
M =TAPE AND REEL WITH PICKUP CAPS FOR SPECIAL CUSTOMER.
- 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 INCH/MM	product family BERGSTIK
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title
W	EXL-N-12227	JZ		2012-07-15	angles linear	XXL01/XXL03	.100 UNSHROUDED HDR
X	ELX-N-14748	ZK		2013-05-14		XXX005/XXX013	DUAL ROW VERT. SMT.
Y	ELX-N-19883	JH		2015-01-15	0°±2°	XXX0020/XXX0051	
AA	ELX-N-21232	MZ		2015-06-25	dr	D.INGRAM 1999-05-17	dwg no
AB	ELX-N-22858	MZ		2015-12-22	enrg	H.SUNDAY 1999-07-21	sheet 1 of 4
					chr	H.SUNDAY 1999-07-21	size
					appd	H.SUNDAY 1999-07-21	A3
sheet	revision	AB	AB	AB	AB		type
index	sheet	1	2	3	4		Product Customer Drawing

PRODUCT NUMBER  
SEE SHEET 1



mat'l. code SEE NOTES 1&2	surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
ltr AB	ecn no	date	tolerances unless otherwise specified	title .100 UNSHROUDED HDR DUAL ROW VERT. SMT.
			angles linear 0°±2'	scale 1:1
			dr engr chr appd	dwg no 54202
			D.INGRAM H.SUNDAY H.SUNDAY H.SUNDAY	sheet2 of 4 size A3
			1999-05-17 1999-07-21 1999-07-21 1999-07-21	type Product Customer Drawing
sheet index	revision sheet			



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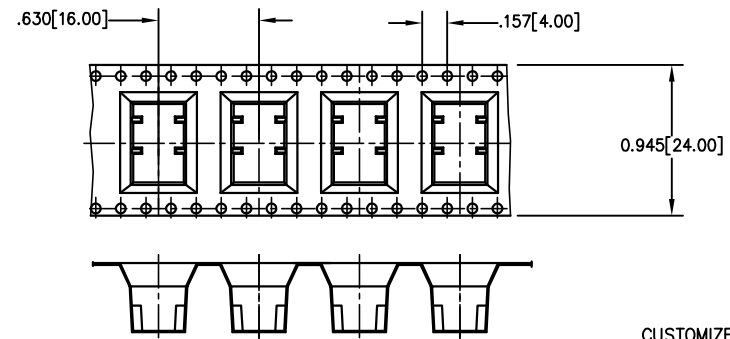
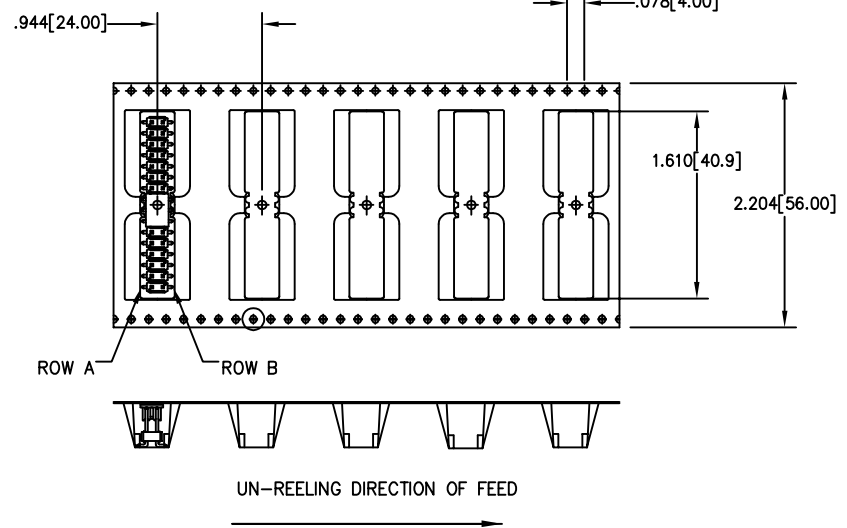
# TAPE AND REEL PACKAGING

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

# TAPE AND REEL PACKAGING



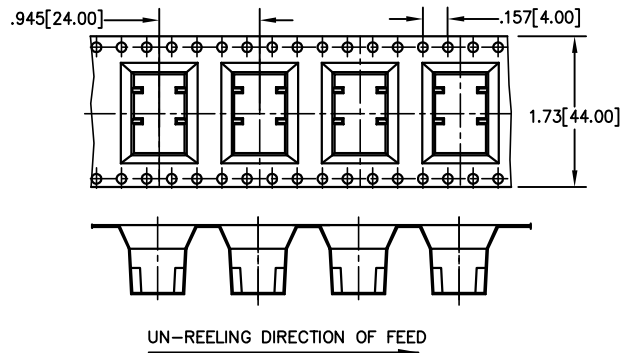
CUSTOMIZED CARRIER TAPE  
FOR 2x2,2x3,2x4,2x5 SIZE.  
(SEE NOTE 5)

mat'l. code SEE NOTES 1&2			surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection 	product family BERGSTIK		
ltr	ec	no	dr	tolerances unless otherwise specified		title		
AB				angles	linear	.100 UNSHROUDED HDR DUAL ROW VERT. SMT.		
				0°±2°		dwg no		
			dr	D.INGRAM	1999-05-17	sheet 3 of 4		
			enr	H.SUNDAY	1999-07-21	size		
			chr	H.SUNDAY	1999-07-21	A3		
			appd	H.SUNDAY	1999-07-21	type		
sheet	revision					Product Customer Drawing		
index	sheet							

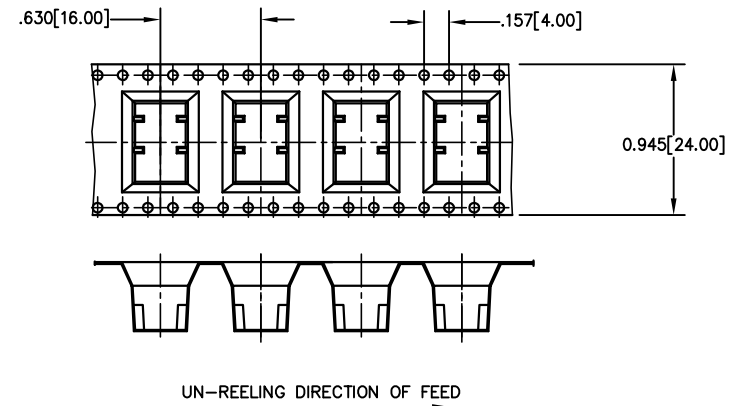


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54202-\*\*\*\*SLF  
SPECIAL REQUEST CARRIER TAPE  
FOR 2x5 SIZE(SEE NOTES 5)



54202-\*\*\*\*MLF  
TAPE AND REEL WITH PICK UP  
CAP FOR SPECIAL CUSTOMER  
FOR 2x5 SIZE(SEE NOTES 5)

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	
AB								angles		linear		INCH/MM	
												.100 UNSHROUDED HDR	
								0°±2°				DUAL ROW VERT. SMT.	
										scale 1:1			
				dr		D.INGRAM		1999-05-17				dwg no	
				engr		H.SUNDAY		1999-07-21				sheet4 of 4	
				chr		H.SUNDAY		1999-07-21				size	
				appd		H.SUNDAY		1999-07-21				A3	
sheet		revision										type Product Customer Drawing	
index		sheet											

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