

PRODUCT NUMBER

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

LEAD FREE OPTION NOTE 9 & 10

POLARIZATION NOTE 6

PACKAGING TYPE, NOTE 5

POSITIONS PER ROW 02 TO 20

NOTES:

- ① HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. FLAME RETARDANT PER UL 94V-0 COLOR: BLACK OR MINERAL FILLED LCP FLAME RETARDENT 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. N =TAPE AND REEL WITH PICKUP CAPS (CHANGE PITCH OF TAPE AND REEL).
- ⑥ FOR POLARIZATION, SPECIFY POSITION NUMBER (i.e. AO3=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.

PLATING

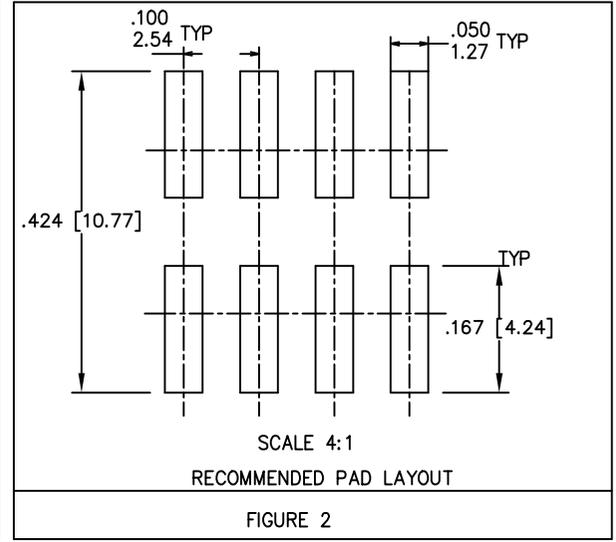
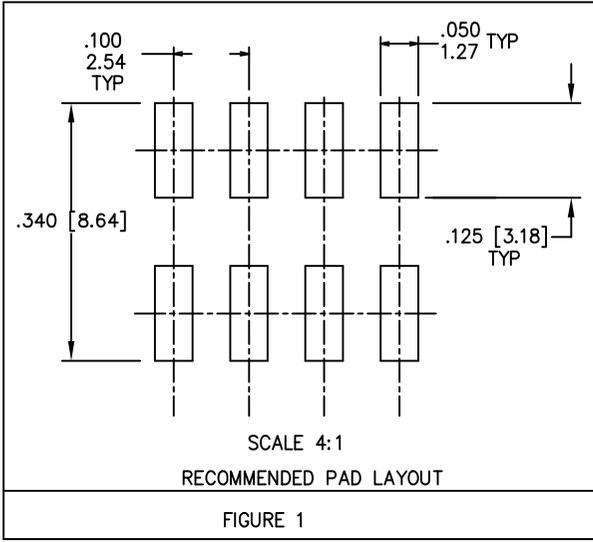
S=15µ"[0.38µm]
ON CONTACT AREA
100µ"[2.5µm]TIN
ON TAIL(NOTE 13)

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(NOTE 11)

F=2µ"[0.05µm]GOLD
ON CONTACT AREA
AND ON TAIL

LEAD STYLE	POST	TAIL OVERALL WIDTH	PCB LAYOUT
06	0.177/4.50	.290 ^{+0.015} _{-0.017} / 7.37 ^{+0.38} _{-0.43}	FIGURE 1
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

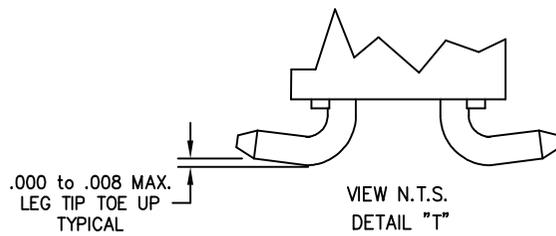
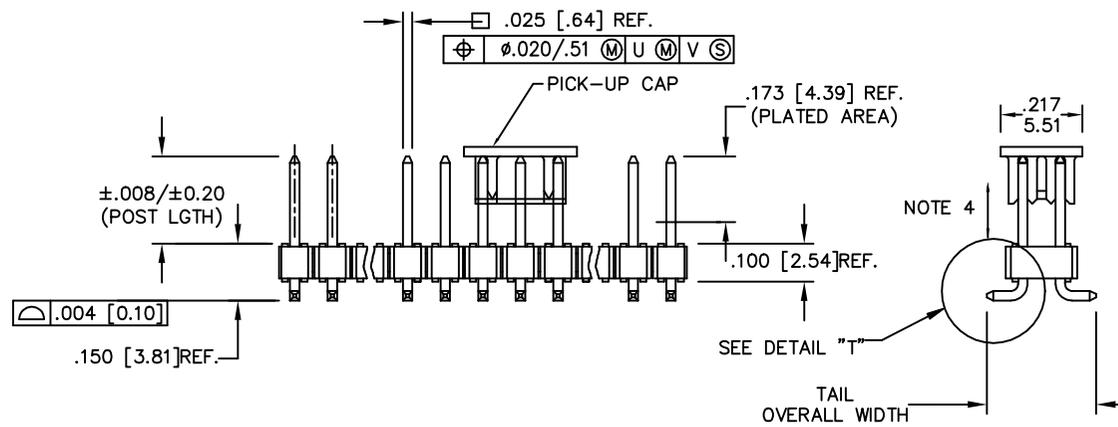
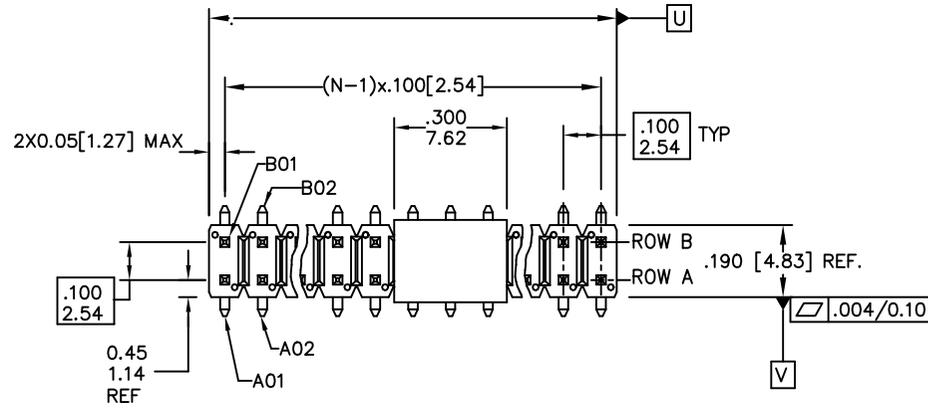


mat'l. code NOTES 2 & 3		surface ISO 1302		tolerance ISO 406 ISO 1101		projection ISO 1101		product family BERGSTIK		
itr	ecr no	dr	date	tolerances unless otherwise specified				title		
AA	ELX-N-21232	MZ	2015-06-25	.XXX/01/.XX/0.3				.100 UNSHROUDED HDR		
AB	ELX-N-22858	MZ	2015-12-22	angles	linear	.XXX/005/.XX/0.13		DUAL ROW VERT. SMT.		
AC	ELX-N-35783	MZ	2020-01-03	0±2'	.XXX/0020/.XX/0.051				scale 1:1	
AD	ELX-N-52315	MZ	2024-07-23	dr	D.INGRAM	1999-05-17		dwg no		
				enr	H.SUNDAY	1999-07-21		sheet 1 of 3		
				chr	H.SUNDAY	1999-07-21		size		
				appd	H.SUNDAY	1999-07-21		A3		
sheet		revision		AD	AD	AD	AD	type Product Customer Drawing		
index	sheet	1	2	3	4					

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PRODUCT NUMBER
SEE SHEET 1



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

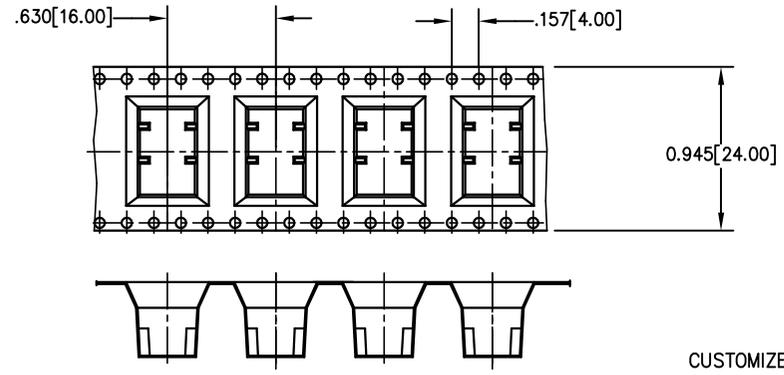
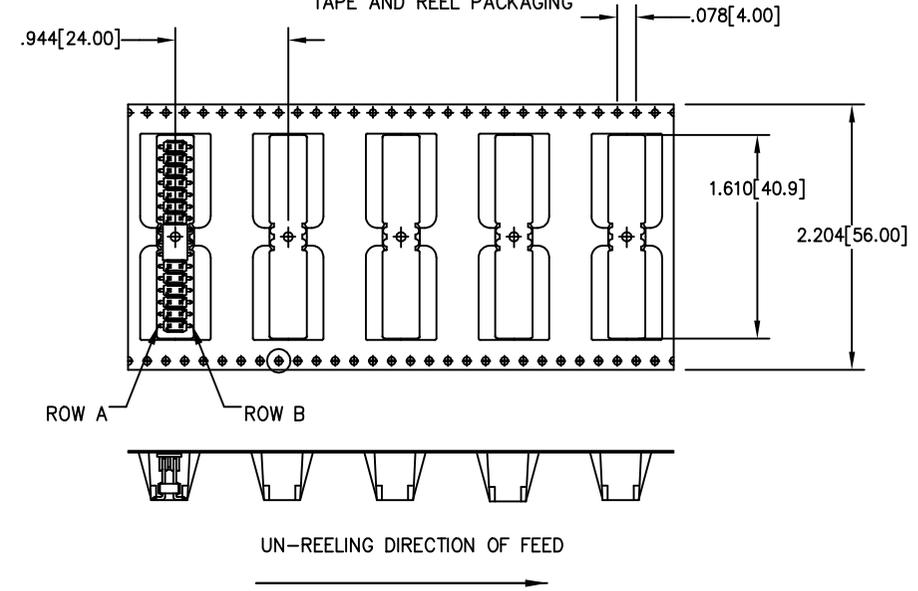
TAPE AND REEL PACKAGING

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)

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mat'l. code		surface		tolerance		projection		product family	
NOTES 2 & 3		ISO 1302		ISO 406		ISO 1101		BERGSTIK	
ltr	ecr no	dr	date	tolerances unless otherwise specified					
AD				angles	linear	.XX±01/.X±0.3		title	
				0±2'		.XXX±005/.XX±0.13		.100 UNSHROUDED HDR	
						.XXX±0020/.XX±0.051		DUAL ROW VERT. SMT.	
		dr	D.INGRAM	1999-05-17	scale 1:1				
		enr	H.SUNDAY	1999-07-21	Amphenol FCI				
		chr	H.SUNDAY	1999-07-21	dwg no				
		appd	H.SUNDAY	1999-07-21	sheet 3 of 4				
sheet index		revision sheet						size	
								A3	
								type Product Customer Drawing	

1

2 3

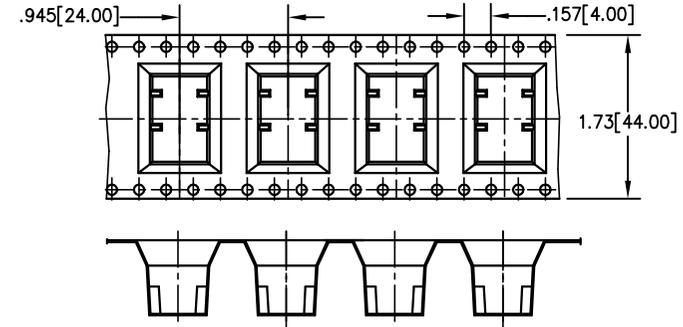
4

5

6

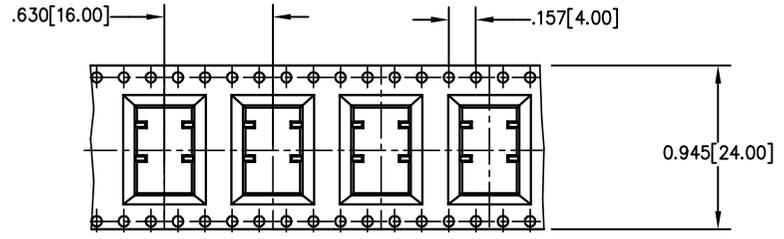
A

A



UN-REELING DIRECTION OF FEED

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



UN-REELING DIRECTION OF FEED

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

B

B

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C

C

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D

D

mat'l. code NOTES 2 & 3		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.
AD				.XX±.01/.XX±0.3 .XXX±.005/.XXX±0.13 .XXXX±.0020/.XXX±0.051	
				angles linear 0±2'	INCH/MM
				dr	scale 1:1
				enr	 dwg no 54202 sheet 4 of 4 size A3
				chr	
				appd	
sheet index	revision sheet				type Product Customer Drawing

1

2

5

6