

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 2.54= 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)(BUS-14-212).  
P =TUBES WITH PICKUP CAPS(BUS-14-212).  
A =TAPE AND REEL WITH PICKUP CAPS(GS-14-345).  
C =CUSTOMIZED TAPE AND REEL WITH PICKUP CAPS(GS-14-345).  
D =TAPE AND REEL WITHOUT PICKUP CAPS(GS-14-345).  
S =SPECIAL REQUEST OF TAPE AND REEL WITH PICKUP CAPS. (GS-14-345)  
M =TAPE AND REEL WITH PICKUP CAPS FOR SPECIAL CUSTOMER. (GS-14-345)  
N =TAPE AND REEL WITH PICKUP CAPS (CHANGE PITCH OF TAPE AND REEL)(GS-14-345).  
IF THE PRODUCT IS TRANSPORT BY SEA, THE P/N WILL HAVE A SPECIAL SUFFIX "W".. WHICH IS IN FRONT OF "LF".
- 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.

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

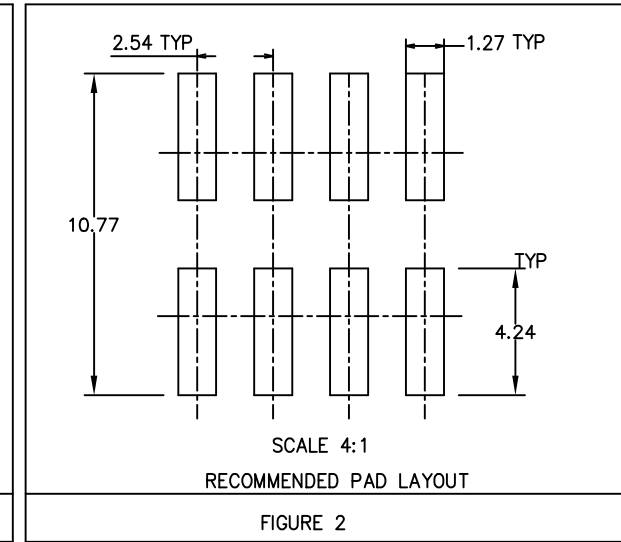
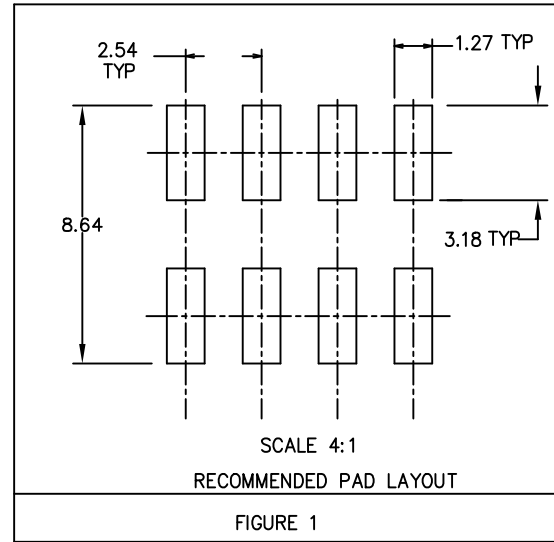
LEAD FREE OPTION NOTE 9 & 10

POLARIZATION NOTE 6

PACKAGING TYPE, NOTE 5

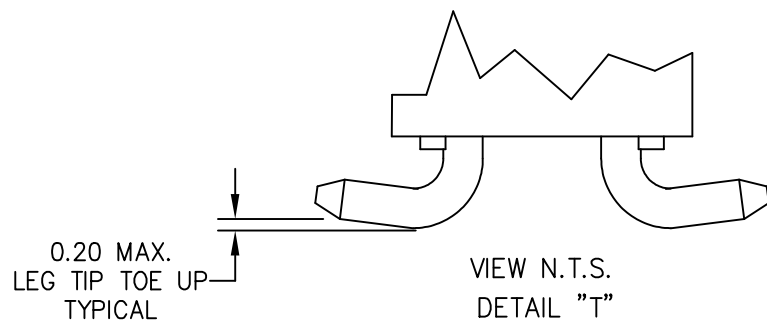
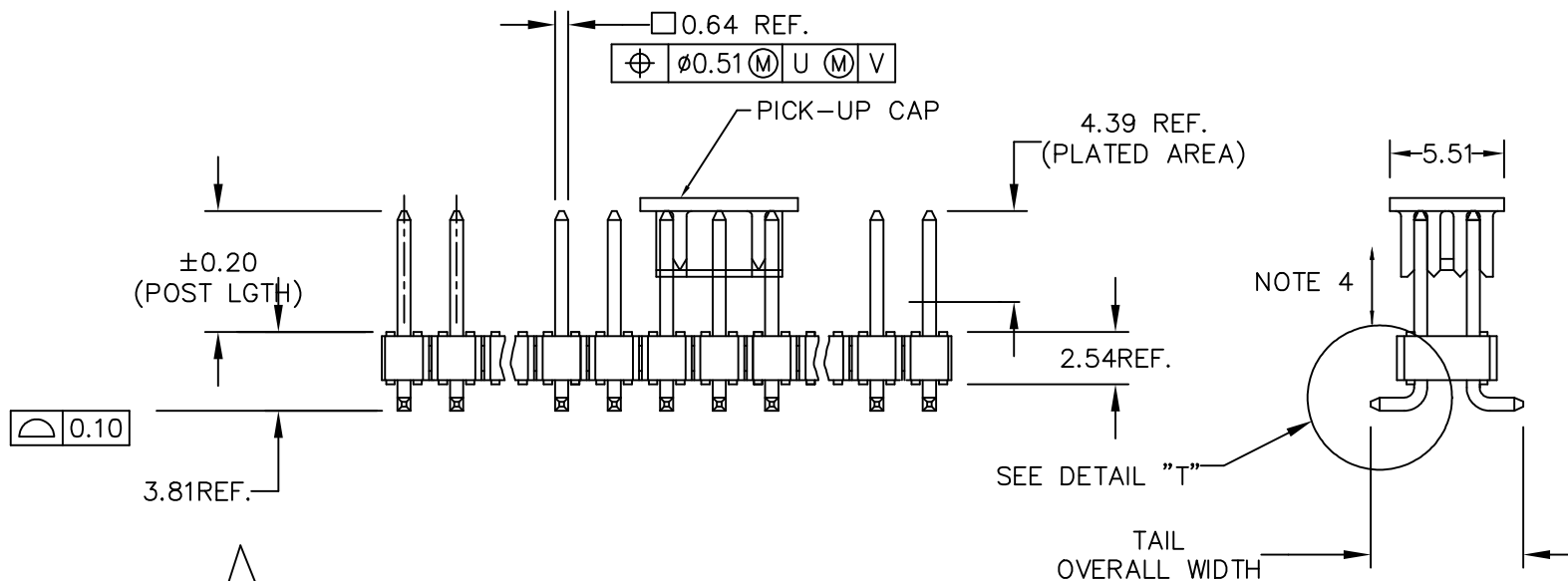
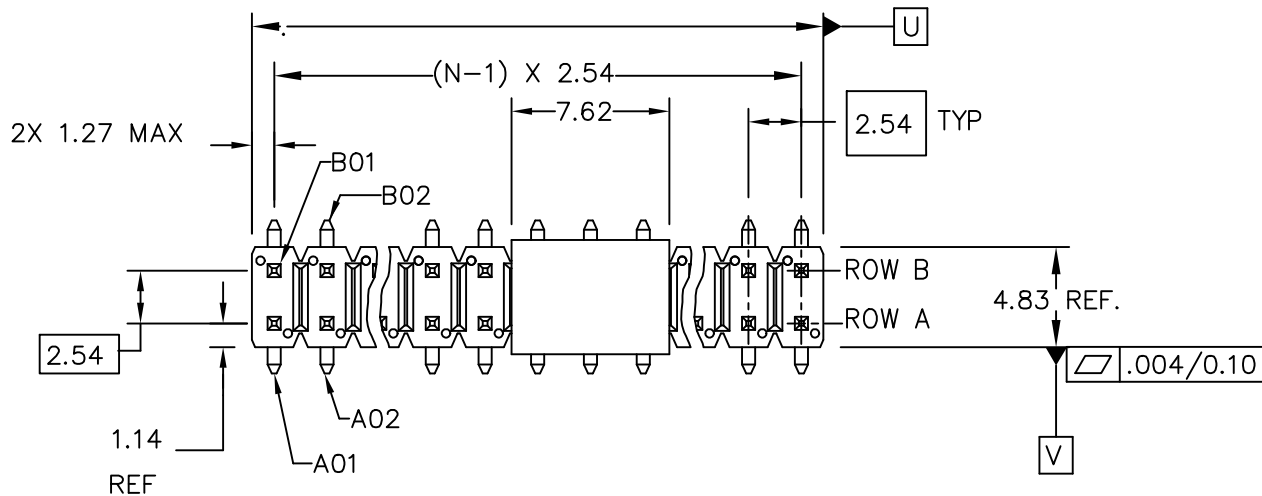
POSITIONS PER ROW 02 TO 20

LEAD STYLE	POST	TAIL OVERALL WIDTH	PCB LAYOUT
06	4.50	7.37 <sup>+0.38</sup> <sub>-0.43</sub>	FIGURE 1
08 30	5.84 8.08	7.37 <sup>+0.38</sup> <sub>-0.43</sub>	FIGURE 1
60	14.60	9.50 <sup>+0.38</sup> <sub>-0.43</sub>	FIGURE 2



mat'l. code NOTES 2 & 3		surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection MM		product family BERGSTIK	
ltr	ecn no	dr	date	tolerances unless otherwise specified		title		.100 UNSHROUDED HDR DUAL ROW VERT. SMT.	
AA	ELX-N-21232	MZ	2015-06-25	angles	linear	MM		dwg no	
AB	ELX-N-22858	MZ	2015-12-22	0±2'		scale 1:1		sheet 1 of 3	
AC	ELX-N-35783	MZ	2020-01-03			Amphenol FCI		size	
AD	ELX-N-52315	MZ	2024-07-23	dr	D.INGRAM	1999-05-17		54202	
AE	ELX-N-52988	MZ	2024-09-25	enr	H.SUNDAY	1999-07-21		A3	
AF	ELX-N-58787	MZ	2025-12-26	chr	H.SUNDAY	1999-07-21		type Product Customer Drawing	
sheet index		revision sheet		AF	AF	AF	AF		
				1	2	3	4		

PRODUCT NUMBER  
SEE SHEET 1



mat'l. code NOTES 2 & 3		surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection MM	product family BERGSTIK
ltr	ecm no	dr	date	tolerances unless otherwise specified	title .100 UNSHROUDED HDR DUAL ROW VERT. SMT.
AF				angles 0±2'	MM
				linear .X±0.3 .XX±0.13 .XXX±0.051	scale 1:1
		dr	D.JINGRAM	1999-05-17	Amphenol FCI
		enr	H.SUNDAY	1999-07-21	
		chr	H.SUNDAY	1999-07-21	
		appd	H.SUNDAY	1999-07-21	dwg no 54202
sheet index	revision sheet				sheet 2 of 4 size A3
					type Product Customer Drawing

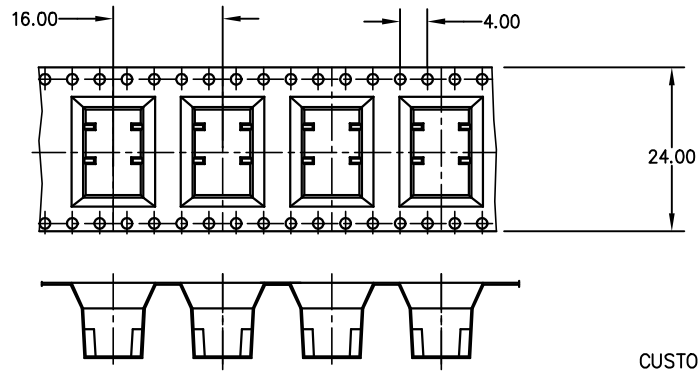
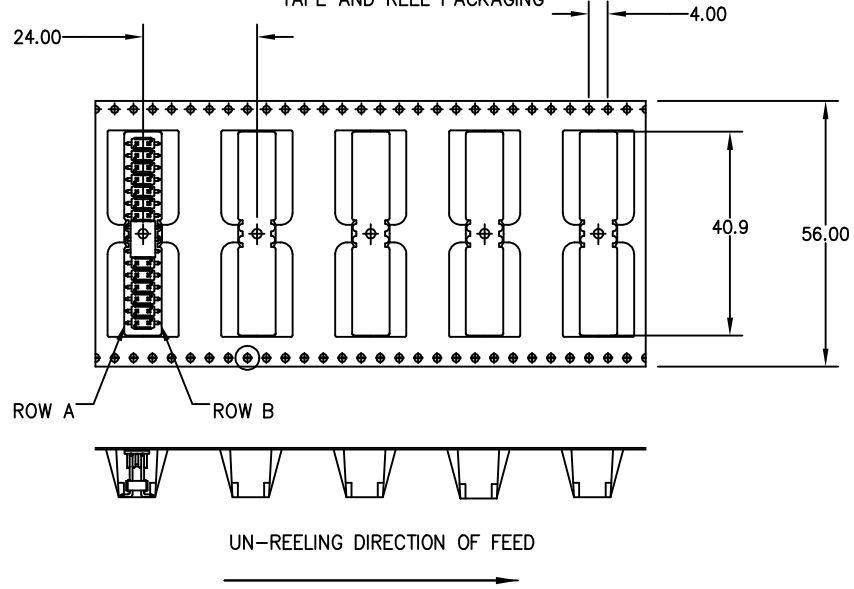
TAPE AND REEL PACKAGING

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

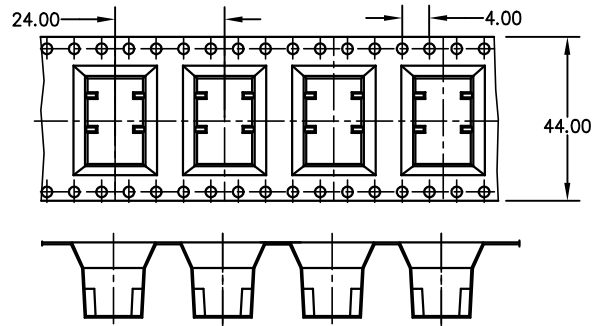


CUSTOMIZED CARRIER TAPE FOR 2x2,2x3,2x4,2x5 SIZE. (SEE NOTE 5)

Amphenol FCI

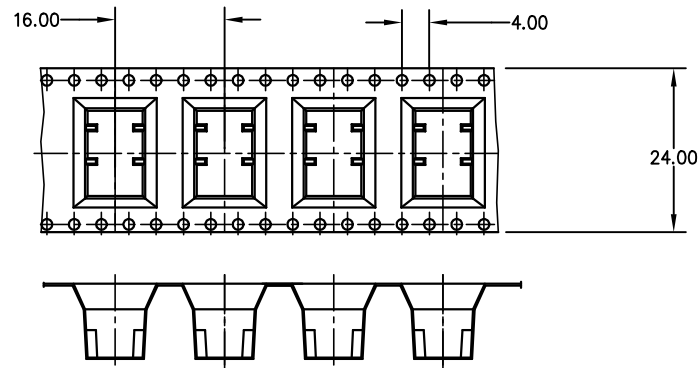
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mat'l. code NOTES 2 & 3		surface ISO 1302	tolerance ISO 406 ISO 1101	projection 	product family BERGSTIK
ltr	ecn no	dr	date	tolerances unless otherwise specified	title .100 UNSHROUDED HDR DUAL ROW VERT. SMT.
AF				angles linear .xx±0.3 .xxx±0.13 .xxxx±0.001	scale 1:1
		dr	D.INGRAM	1999-05-17	dwg no 54202 sheet 3 of 4 size A3
		enr	H.SUNDAY	1999-07-21	
		chr	H.SUNDAY	1999-07-21	
		appd	H.SUNDAY	1999-07-21	type Product Customer Drawing
sheet index	revision sheet				



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)

Amphenol FCI  
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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.
AF				angles linear .X±0.3 .XX±0.13 XXX±0.001	MM scale 1:1
		dr	D.INGRAM	1999-05-17	 dwg no 54202 sheet 4 of 4 size A3 type Product Customer Drawing
		engr	H.SUNDAY	1999-07-21	
		chr	H.SUNDAY	1999-07-21	
		appd	H.SUNDAY	1999-07-21	
sheet index	revision sheet				