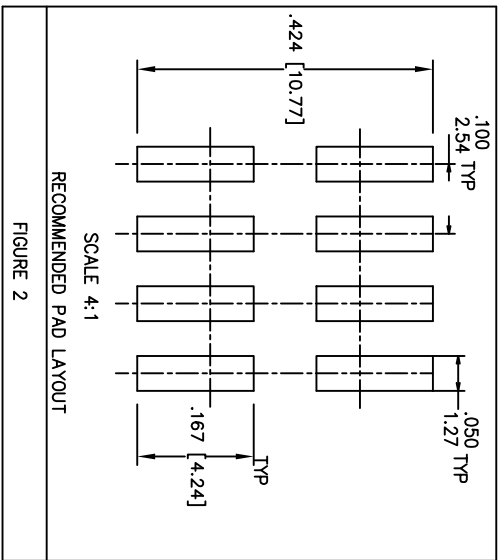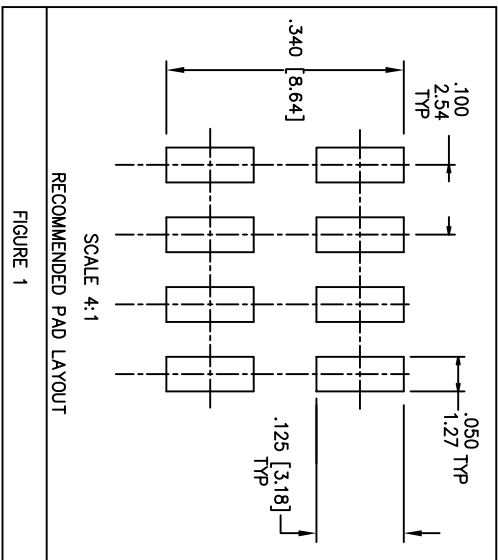PRODUCT NUMBER

5 4 2 0 2 — X X X X X = X X X LF

NOTES:

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

OR

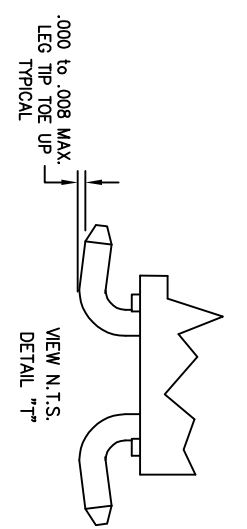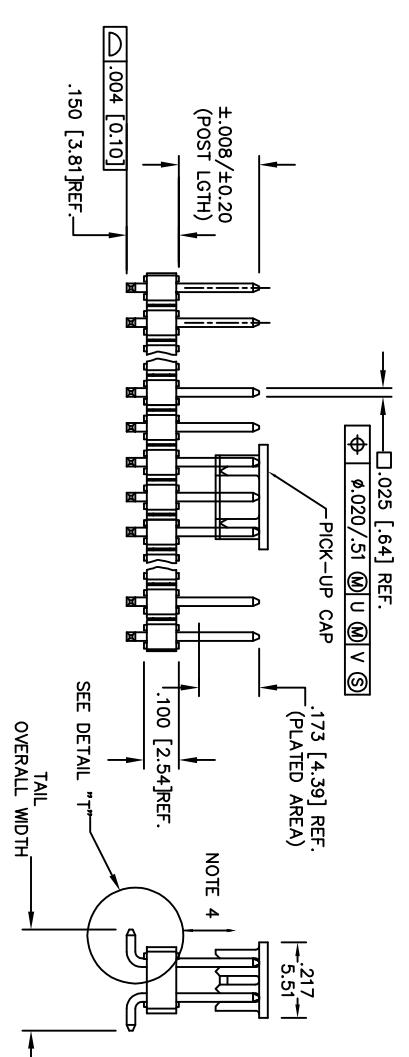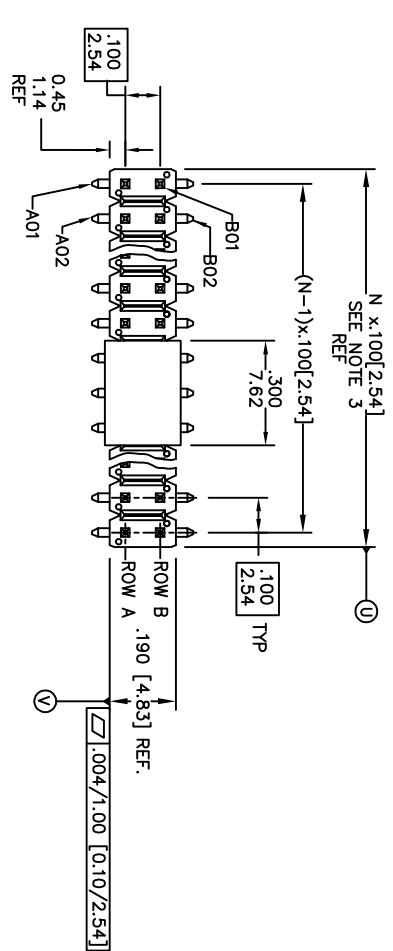MINERAL FILLED LCP FLAME RETARDENT
PER UL-94V-0. COLOR: BLACK.

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.
POSITIONS PER ROW.
N x .100/2.54=1.00/25.4
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 =TAPE AND REEL WITHOUT PICKUP CAPS.
M =TAPE AND REEL WITH PICKUP CAPS FOR SPECIAL CUSTOMER.
S =SPECIAL REQUEST OF TAPE AND REEL WITH PICKUP CAPS.

⑥ FOR POLARIZATION, SPECIFY POSITION NUMBER
OMIT FROM PRODUCT NUMBER IF THIS FEATURE IS NOT APPLICABLE.
(i.e. A03=ROW A POS. 3) TO OMIT PIN
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)

OR

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

F=2μ"[0.05μm]GOLD
ON CONTACT AREA
AND ON TAIL(SEE NOTE 11)

— POSITIONS PER ROW
02 TO 20

— PACKAGING TYPE, NOTE 5

— POLARIZATION
NOTE 6

— LEAD STYLE, NOTE 5

— LEAD FREE OPTION NOTE 9 & 10

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

.340 [8.64]

.100 2.54 TYP

.050 1.27 TYP

.125 [3.18] TYP

RECOMMENDED PAD LAYOUT
SCALE 4:1
FIGURE 1

.424 [10.77]

.100 2.54 TYP

.050 1.27 TYP

.167 [4.24] TYP

RECOMMENDED PAD LAYOUT
SCALE 4:1
FIGURE 2

mat'l. code	SEE NOTES 1&2
surface	ISO 1302 √ ISO 406 ISO 1101
tolerance	tolerances unless otherwise specified
angles	0°±2°
linear	.XXX±0.XX/.XX±0.X .XXX±0.005/.XX±0.13
projection	⊕
scale	1:1	INCH/MM

	ecn no	dr	date
ltr		dr	date
V	EA-N-12227	JZ	2012-07-15
W	EA-N-14748	ZK	2013-05-14
X	ELX-N-19883	JH	2015-01-15
Y	ELX-N-21232	MZ	2015-06-25
AA			
AB	ELX-N-22856	MZ	2015-12-22

	dr	engr	chkr	appd
	D.INGRAM	H.SUNDAY	H.SUNDAY	H.SUNDAY
	1999-05-17	1999-07-21	1999-07-21	1999-07-21

product family: BERGSTIK

title: .100 DUAL ROW UNSHROUDED HDR VERT. SMT.

dwg no: 54202

sheet 1 of 4   size A3

type: Product Customer Drawing

sheet	1	2	3	4
index				
revision	AB	AB	AB	AB
sheet	1	2	3	4

form: A3

PRODUCT NUMBER
SEE SHEET 1

form: A3

.000 to .008 MAX.
LEG TIP TOE UP
TYPICAL

VIEW N.T.S.
DETAIL "T"

.004 [0.10]

.150 [3.81]REF.

±.008/±0.20
(POST LGTH)

.025 [.64] REF.

⊕ ⌀.020/.51 Ⓜ Ⓤ Ⓜ Ⓥ Ⓢ

PICK-UP CAP

.173 [4.39] REF.
(PLATED AREA)

.100 [2.54]REF.

TAIL
OVERALL WIDTH

SEE DETAIL "T"

NOTE 4

.217
5.51

.100
2.54
REF

0.45
1.14
REF

A01
A02

B01
B02

N x.100[2.54]
SEE NOTE 3
REF

(N-1)x.100[2.54]

.300
7.62

ROW B
ROW A .190 [4.83] REF.

.100
2.54
TYP

Ⓤ

Ⓥ

.004/1.00 [0.10/2.54]

mat'l. code				
SEE NOTES 1&2				
ltr	ecn no	dr	date	
AB				

surface	ISO 1302 √		
tolerance	ISO 406	ISO 1101	
tolerances unless otherwise specified			
angles	.XX±.01/.XX±0.3		
0°±2°	linear	.XXX±005/.XX±0.13	
		.XXXX±0020/.XXX±0.051	

	dr	D.INGRAM	1999-05-17
	engr	H.SUNDAY	1999-07-21
	chkr	H.SUNDAY	1999-07-21
	appd	H.SUNDAY	1999-07-21

projection
INCH/MM
scale 1:1

FCI

product family
BERGSTIK

title
.100 UNSHROUDED HDR
DUAL ROW VERT. SMT.

dwg no
54202

type
Product Customer Drawing

sheet2 of 4   size
A3

revision
sheet
index
sheet

form: A3

TAPE AND REEL PACKAGING

SIZE	LEAD STYLE 08 POST (0.230 [5.84])	LEAD STYLE 30 POST (0.318 [8.08])
2X2	YES	
2X3	YES	
2X4	YES	YES
2X5	YES	YES
2X6	YES	YES
2X7	YES	YES
2X8	YES	YES
2X9	YES	
2X10	YES	
2X11	YES	YES
2X12	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

ROW A
ROW B

.944[24.00]

.078[4.00]

TAPE AND REEL PACKAGING

UN-REELING DIRECTION OF FEED

1.610[40.9]

2.204[56.00]

.630[16.00]

.157[4.00]

0.945[24.00]

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

mat'l. code
SEE NOTES 1&2

ltr ecn no dr date
AB

surface
ISO 1302

tolerance
ISO 406
ISO 1101

projection

product family
BERGSTIK

title
.100 UNSHROUDED HDR
DUAL ROW VERT. SMT.

dwg no
54202

sheet3 of 4 size
A3

type
Product Customer Drawing

angles
0°±2°

linear
.XXX±0.005/.XX±0.13
.XXXX±0.020/.XXX±0.051

scale 1:1

INCH/MM

dr D.INGRAM 1999-05-17
engr H.SUNDAY 1999-07-21
chkr H.SUNDAY 1999-07-21
appd H.SUNDAY 1999-07-21

sheet
index
revision
sheet

.945[24.00]

UN—REELING DIRECTION OF FEED

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

.157[4.00]

1.73[44.00]

.630[16.00]

UN—REELING DIRECTION OF FEED
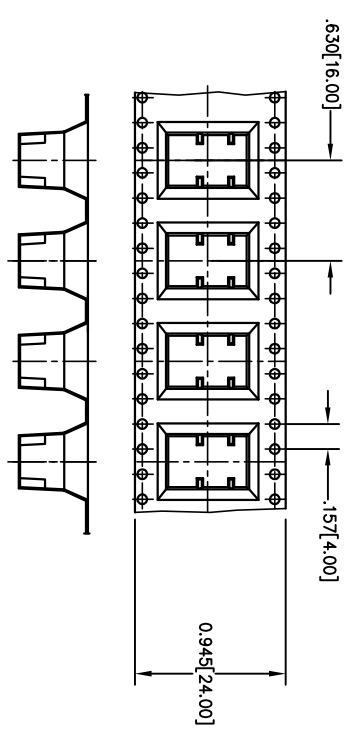
54202-*****MLF
TAPE AND REEL WITH PICK UP
CAP FOR SPECIAL CUSTOMER
FOR 2x5 SIZE(SEE NOTES 5)

.157[4.00]

0.945[24.00]

form: A3						

sheet index	sheet					
	revision					
mat'l. code			surface	projection	product family	title
SEE NOTES 1&2			ISO 1302		BERGSTIK	.100 UNSHROUDED HDR
ltr	ecn no	dr	date	ISO 406 / ISO 1101		DUAL ROW VERT. SMT.
AB				tolerances unless otherwise specified	dwg no	sheet4 of 4 size
				angles	linear	0°±2°	.XXX±0.13 / .XX±0.3 / .XXXX±0.020 / .XXX±0.051	INCH/MM	54202	A3
		dr	D.INGRAM	1999-05-17	scale 1:1	type	Product Customer Drawing
		engr	H.SUNDAY	1999-07-21			
		chr	H.SUNDAY	1999-07-21			
		appd	H.SUNDAY	1999-07-21			