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form: A3

PRODUCT NUMBER
5 4 1 0 3 - X X X - X X X X

PLATING
S=15μ"[0.38μm]GOLD
ON CONTACT AREA
100μ"[2.54μm]TIN
ON TAIL
G=30μ"[0.76μm]GOLD
ON CONTACT AREA
100μ"[2.54μm]TIN
ON TAIL
T=100μ"[2.54μm]TIN
ON CONTACT AREA
AND ON TAIL
(SEE NOTE 9 & 13).

RETENTION
R=RETENTIVE LEG
NOTE 5

POLARIZATION
NOTE 8

POSITIONS PER ROW
01 TO 36

PIN STYLE	POST	TAIL	OAL
06	0.230/5.84	0.095/2.41	0.440/11.18
08	0.230/5.84	0.105/2.67	0.450/11.43
10	0.230/5.84	0.135/3.42	0.480/12.19
12	0.230/5.84	0.285/7.23	0.630/16.00
30	0.318/8.08	0.105/2.67	0.538/13.67
32	0.318/8.08	0.135/3.42	0.568/14.43
34	0.318/8.08	0.197/5.00	0.630/16.00

LEAD FREE PRODUCT NUMBER
5 4 1 0 3 - X X X X X X X X LF

PLATING
S=15μ"[0.38μm]GOLD
ON CONTACT AREA
100μ"[2.54μm]TIN
ON TAIL
G=30μ"[0.76μm]GOLD
ON CONTACT AREA
100μ"[2.54μm]TIN
ON TAIL
T=100μ"[2.54μm]TIN
ON CONTACT AREA
AND ON TAIL
(SEE NOTE 9 & 13)

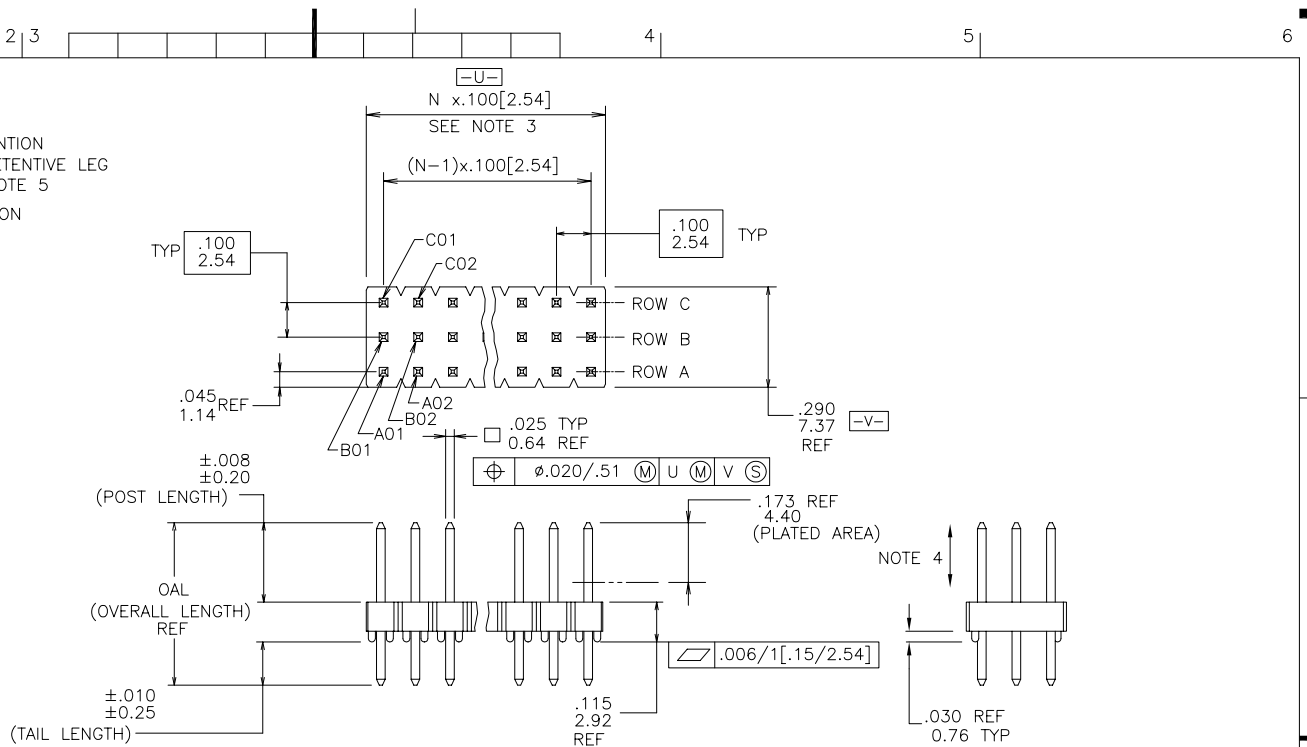
LEAD FREE
NOTE 10 & 11

RETENTION
R=RETENTIVE LEG
NOTE 5

POLARIZATION
NOTE 8

POSITIONS PER ROW
01 TO 36

PIN STYLE	POST	TAIL	OAL
06	0.230/5.84	0.095/2.41	0.440/11.18
08	0.230/5.84	0.105/2.67	0.450/11.43
10	0.230/5.84	0.135/3.42	0.480/12.19
12	0.230/5.84	0.285/7.23	0.630/16.00
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32	0.318/8.08	0.135/3.42	0.568/14.43
34	0.318/8.08	0.197/5.00	0.630/16.00



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	angles linear	scale 1:1	title UNSHROUDED HDR. T/R VERT. THRU HOLE, .100
A V92811 DAI 08/24/99	.XX±.01/0.3			dwg no 54103
B V21475 GIP 09/17/02	.XXX±.005/0.13			sheet 1 of 2 size A3
C M05-0118 MHT 6/03/05 0'±2'	.XXXX±.0020/0.051			type Product Customer Drawing
D M06-0435 MHT 10/31/06	dr D.INGRAM 05/26/99	enr T.HANNA 07/21/99		
	chr T.HANNA 07/21/99	appd T.HANNA 07/21/99		
sheet index	revision sheet	D D		
	1 2			

1

2 3

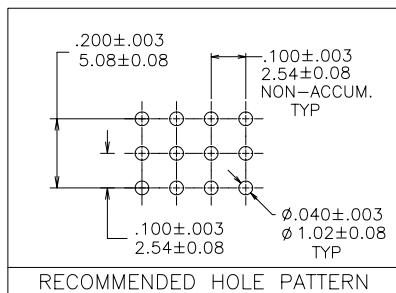
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5

6

NOTES:

- ①. HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC. UL94V-0, COLOR: BLACK
- ②. PIN MATERIAL: PHOSPHOR-BRONZE
- ③. TO DETERMINE DIMENSIONS:
N = NUMBER OF POSITIONS PER ROW.
EXAMPLE: 10 POS., N x .100[2.54]=1.00[25.40].
- ④. 2LBS/0.9KG MIN. PIN RETENTION IN EITHER DIRECTION
- ⑤. RETENTIVE LEG APPLICABLE TO TAIL LENGTH .120/3.05 ONLY.
RETENTION IS APPLIED TO TWO PINS PER PART, ADJACENT TO ONE ANOTHER.
5LB/2.3KG MAX INSERTION FORCE AND .25LB./1KG MIN RETENTION FORCE
PER RETENTIVE PIN USING .062/1.57 THICK CIRCUIT BOARD AND RECOMMENDED
HOLE PATTERN. RETENTIVE LOCATION AT THE DISCRETION OF THE MANUFACTURER.
OMIT FROM PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.
6. PACKAGED IN POLY BAGS.
- ⑦. UNDERPLATING: 50 μ "/1.27 μ m Ni.
- ⑧. FOR POLARIZATION SPECIFY POSITION NUMBER (i.e., A03=ROW A POS. 3)
TO OMIT PIN. OMIT FROM PRODUCT NUMBER IF FEATURE IS NOT APPLICABLE.
9. PIN TIPS ON Sn PLATED PRODUCT MAY HAVE BARE METAL ON TWO SIDES, BOTH ENDS.
- ⑩. PART NUMBERS WITH "LF" AT THE END ARE LEAD FREE.
- ⑪. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
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 OR
FOR 15 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.5mm
MINIMUM THICK CIRCUIT BOARD.
- ⑬. "THIS PRODUCT HAS 100% PURE TIN PLATING IN THE INTERFACE AND
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT
ENVIRONMENTS."



mat'l. code				surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family BERGSTIK
ltr	ecn	no	dr	date	tolerances unless otherwise specified		title
D					angles linear .XX±.01/0.3 .xxx±.005/0.13 .xxxx±.0020/0.051	INCH/MM	UNSHROUDED HDR. T/R VERT. THRU HOLE, .100
					0'±2'	scale 1:1	dwg no sheet 2 of 2 size
				dr	D.INGRAM 05/26/99	FCI	54103 A3
				enr	T.HANNA 07/21/99		
				chr	T.HANNA 07/21/99		
				appd	T.HANNA 07/21/99		
sheet index	revision sheet						type Product Customer Drawing