

## PRODUCT NUMBER

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

## PLATING

S=15μ"[0.38μm]GOLD  
ON CONTACT AREA  
100μ"[2.5μm]TIN  
ON TAIL

G=30μ"[0.76μm]GOLD  
ON CONTACT AREA  
100μ"[2.5μm]TIN  
ON TAIL

T=100μ"[2.5μm]TIN  
ON CONTACT AREA  
AND ON TAIL(SEE NOTE 8 & 11)

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

POLARIZATION  
NOTE 6

PACKAGING TYPE, NOTE 5

POSITIONS PER ROW  
02 TO 20

| LEAD STYLE | POST       |
|------------|------------|
| 08         | 0.230/5.84 |
| 30         | 0.318/8.08 |

## LEAD FREE PRODUCT NUMBER

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

## PLATING

S=15μ"[0.38μm]GOLD  
ON CONTACT AREA  
100μ"[2.5μm]TIN  
ON TAIL

G=30μ"[0.76μm]GOLD  
ON CONTACT AREA  
100μ"[2.5μm]TIN  
ON TAIL

T=100μ"[2.5μm]TIN  
ON CONTACT AREA  
AND ON TAIL(SEE NOTE 8 & 11)

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

LEAD FREE OPTION NOTE 9 &amp; 10

POLARIZATION  
NOTE 6

PACKAGING TYPE, NOTE 5

POSITIONS PER ROW  
02 TO 20

| LEAD STYLE | POST       |
|------------|------------|
| 08         | 0.230/5.84 |
| 30         | 0.318/8.08 |

## NOTES:

- ① HOUSING MAT'L: HIGH TEMPERATURE THERMOPLASTIC.  
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: \_ =POLY BAGS WITHOUT PICKUP CAP.  
T =TUBES (OMIT DASH IF NOT POLARIZED).  
P =TUBES WITH PICKUP CAPS.  
A =TAPE AND REEL WITH PICKUP CAPS.

- 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.

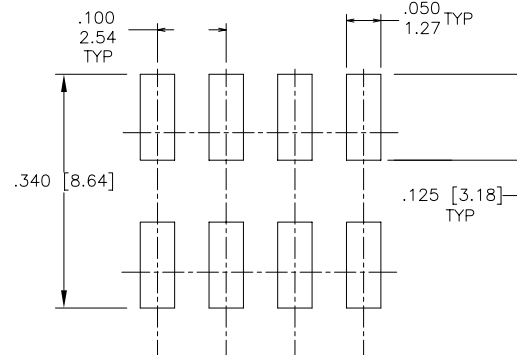
8. PIN TIPS ON Sn PLATED PRODUCT MAY HAVE BARE METAL ON TWO SIDES,  
BOTH ENDS.

- 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.



SCALE 4:1

RECOMMENDED PAD LAYOUT

|                                |          |                       |                                  |                       |                            |
|--------------------------------|----------|-----------------------|----------------------------------|-----------------------|----------------------------|
| mat'l. code<br>SEE NOTES 1 & 2 |          | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101 | projection<br>INCH/MM | product family<br>BERGSTIK |
| ltr                            | ecn      | no                    | dr                               | date                  | title                      |
| J                              | V03-0067 | HTB                   |                                  | 1/17/03               | .100 UNSHROUDED HDR.       |
| K                              | V03-0473 | HTB                   |                                  | 4/25/03               | DUAL ROW VERT. SMT.        |
| L                              | V05-0222 | LP                    |                                  | 3/14/05               |                            |
| M                              | M08-0118 | MHT                   |                                  | 6/03/05               |                            |
| N                              | M06-0268 | MHT                   |                                  | 7/17/06               |                            |
| P                              | M06-0435 | MHT                   |                                  | 10/31/06              |                            |
| R                              | M07-0092 | MHT                   |                                  | 2/07/07               |                            |
| revision                       | R        | R                     | R                                |                       |                            |
| sheet                          | 1        | 2                     | 3                                |                       |                            |
| index                          | sheet    | 1                     | 2                                | 3                     |                            |



scale 1:1

sheet 1 of 3

size A3

type Product Customer Drawing

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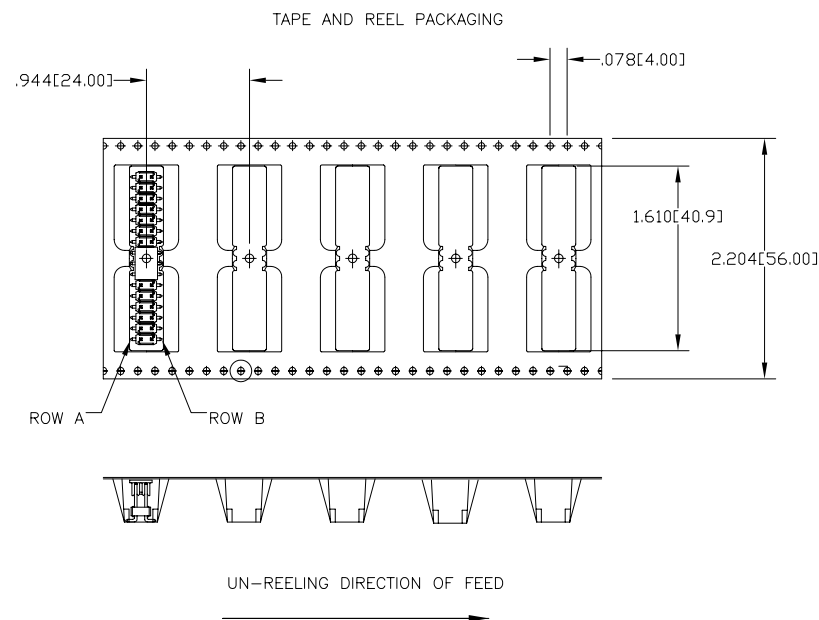
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# TAPE AND REEL PACKAGING

| SIZE | LEAD STYLE 08<br>POST (0.230 [5.84]) | LEAD STYLE 30<br>POST (0.318 [8.08]) |
|------|--------------------------------------|--------------------------------------|
| 2X2  | YES                                  |                                      |
| 2X3  | YES                                  |                                      |
| 2X4  | YES                                  | YES                                  |
| 2X5  | YES                                  |                                      |
| 2X6  | YES                                  |                                      |
| 2X7  | YES                                  | YES                                  |
| 2X8  | YES                                  |                                      |
| 2X9  |                                      |                                      |
| 2X10 | YES                                  |                                      |
| 2X11 | YES                                  |                                      |
| 2X12 |                                      | YES                                  |
| 2X13 | YES                                  |                                      |
| 2X14 |                                      |                                      |
| 2X15 | YES                                  |                                      |
| 2X16 |                                      | YES                                  |
| 2X17 | YES                                  |                                      |
| 2X18 |                                      |                                      |
| 2X19 |                                      |                                      |
| 2X20 |                                      |                                      |



|             |                |    |      |                       |                                       |                       |                               |
|-------------|----------------|----|------|-----------------------|---------------------------------------|-----------------------|-------------------------------|
| mat'l. code |                |    |      | surface<br>ISO 1302 ✓ | tolerance<br>ISO 406<br>ISO 1101      | projection<br>INCH/MM | product family<br>BERGSTIK    |
| ltr         | ecr            | no | dr   | date                  | tolerances unless otherwise specified | scale 1:1             | title                         |
| R           |                |    |      |                       | angles linear .XX±.01/0.3             |                       | .100 UNSHROUDED HDR.          |
|             |                |    |      |                       | 0°±2'                                 |                       | DUAL ROW VERT. SMT.           |
|             |                |    |      |                       | .xxx±.005/0.13                        |                       |                               |
|             |                |    |      |                       | .xxx±.0020/0.051                      |                       |                               |
|             |                |    | dr   | D.INGRAM              | 05/17/99                              | FCJ                   | dwg no                        |
|             |                |    | enr  | H.SUNDY               | 07/21/99                              |                       | sheet 3 of 3 size             |
|             |                |    | chr  | H.SUNDY               | 07/21/99                              |                       | 54202 A3                      |
|             |                |    | appd | H.SUNDY               | 07/21/99                              |                       | type Product Customer Drawing |
| sheet index | revision sheet |    |      |                       |                                       |                       |                               |