

| POSITIONS/<br>CONTACTS | A       |              | B       |              |
|------------------------|---------|--------------|---------|--------------|
|                        | MM±0.20 | [INCH±0.008] | MM±0.30 | [INCH±0.012] |
| 02/04                  | 1.00    | 0.039        | 2.00    | 0.079        |
| 03/06                  | 2.00    | 0.079        | 3.00    | 0.118        |
| 04/08                  | 3.00    | 0.118        | 4.00    | 0.157        |
| 05/10                  | 4.00    | 0.157        | 5.00    | 0.197        |
| 06/12                  | 5.00    | 0.197        | 6.00    | 0.236        |
| 07/14                  | 6.00    | 0.236        | 7.00    | 0.276        |
| 08/16                  | 7.00    | 0.276        | 8.00    | 0.315        |
| 09/18                  | 8.00    | 0.315        | 9.00    | 0.354        |
| 10/20                  | 9.00    | 0.354        | 10.00   | 0.394        |
| 11/22                  | 10.00   | 0.394        | 11.00   | 0.433        |
| 12/24                  | 11.00   | 0.433        | 12.00   | 0.472        |
| 13/26                  | 12.00   | 0.472        | 13.00   | 0.512        |
| 14/28                  | 13.00   | 0.512        | 14.00   | 0.551        |
| 15/30                  | 14.00   | 0.551        | 15.00   | 0.591        |
| 16/32                  | 15.00   | 0.591        | 16.00   | 0.630        |
| 17/34                  | 16.00   | 0.630        | 17.00   | 0.669        |
| 18/36                  | 17.00   | 0.669        | 18.00   | 0.709        |
| 19/38                  | 18.00   | 0.709        | 19.00   | 0.748        |
| 20/40                  | 19.00   | 0.748        | 20.00   | 0.787        |
| 21/42                  | 20.00   | 0.787        | 21.00   | 0.827        |
| 22/44                  | 21.00   | 0.827        | 22.00   | 0.866        |
| 23/46                  | 22.00   | 0.866        | 23.00   | 0.906        |
| 24/48                  | 23.00   | 0.906        | 24.00   | 0.945        |
| 25/50                  | 24.00   | 0.945        | 25.00   | 0.984        |
| 26/52                  | 25.00   | 0.984        | 26.00   | 1.024        |
| 27/54                  | 26.00   | 1.024        | 27.00   | 1.063        |
| 28/56                  | 27.00   | 1.063        | 28.00   | 1.102        |
| 29/58                  | 28.00   | 1.102        | 29.00   | 1.142        |
| 30/60                  | 29.00   | 1.142        | 30.00   | 1.181        |
| 31/62                  | 30.00   | 1.181        | 31.00   | 1.220        |
| 32/64                  | 31.00   | 1.220        | 32.00   | 1.260        |
| 33/66                  | 32.00   | 1.260        | 33.00   | 1.299        |
| 34/68                  | 33.00   | 1.299        | 34.00   | 1.339        |
| 35/70                  | 34.00   | 1.339        | 35.00   | 1.378        |
| 36/72                  | 35.00   | 1.378        | 36.00   | 1.417        |
| 37/74                  | 36.00   | 1.417        | 37.00   | 1.457        |
| 38/76                  | 37.00   | 1.457        | 38.00   | 1.496        |
| 39/78                  | 38.00   | 1.496        | 39.00   | 1.535        |
| 40/80                  | 39.00   | 1.535        | 40.00   | 1.575        |
| 41/82                  | 40.00   | 1.575        | 41.00   | 1.614        |
| 42/84                  | 41.00   | 1.614        | 42.00   | 1.654        |
| 43/86                  | 42.00   | 1.654        | 43.00   | 1.693        |
| 44/88                  | 43.00   | 1.693        | 44.00   | 1.732        |
| 45/90                  | 44.00   | 1.732        | 45.00   | 1.772        |
| 46/92                  | 45.00   | 1.772        | 46.00   | 1.811        |
| 47/94                  | 46.00   | 1.811        | 47.00   | 1.850        |
| 48/96                  | 47.00   | 1.850        | 48.00   | 1.890        |
| 49/98                  | 48.00   | 1.890        | 49.00   | 1.929        |
| 50/100                 | 49.00   | 1.929        | 50.00   | 1.969        |

NOTES:  
1. INSULATOR MATERIAL: L.C.P, UL 94V-0, BLACK COLOR.  
2. CONTACT MATERIAL: PHOSPHOR BRONZE.  
3. CONTACT PLATING: SEE PART NUMBER CODING.  
4. CURRENT RATING: 1 AMP.  
5. INSULATOR RESISTANCE: 1000 MEGA OHMS MIN.  
6. CONTACT RESISTANCE: 20 MILLI OHMS MAX.  
7. DIELECTRIC WITHSTANDING: AC 300V.  
8. OPERATING TEMPERATURE: -40° C TO +125° C.  
9. PROCESSING TEMP.: 260° C FOR 10 SECS MAX.  
(INDICATED TEMPERATURE AND TIME IS FOR COMPONENT INSULATOR.  
HIGHER PROCESSING TEMPERATURES MAY BE USED, PROVIDED HEAT IS  
APPLIED FROM BACK SIDE OF PCB, AND INSULATOR DOES NOT EXCEED  
INDICATED TEMPERATURE AND TIME.)

PART NUMBER CODING  
SMH100-LP\_E-D\_-ST-BK

TERMINATION

STRAIGHT

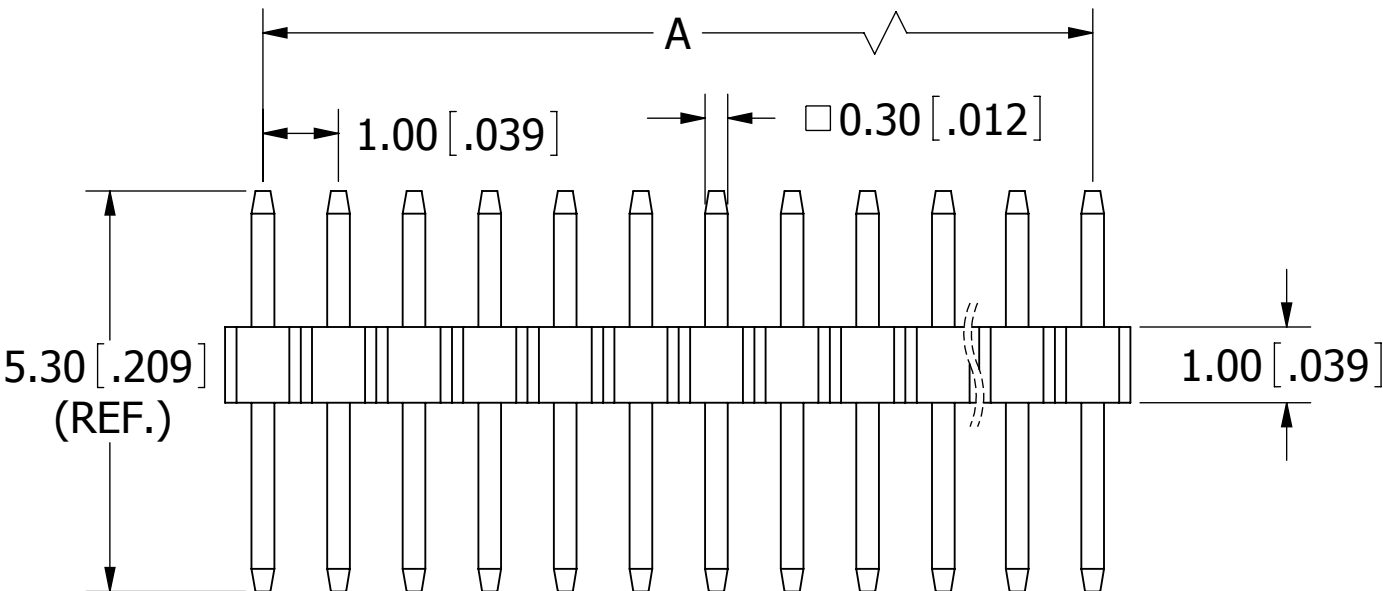
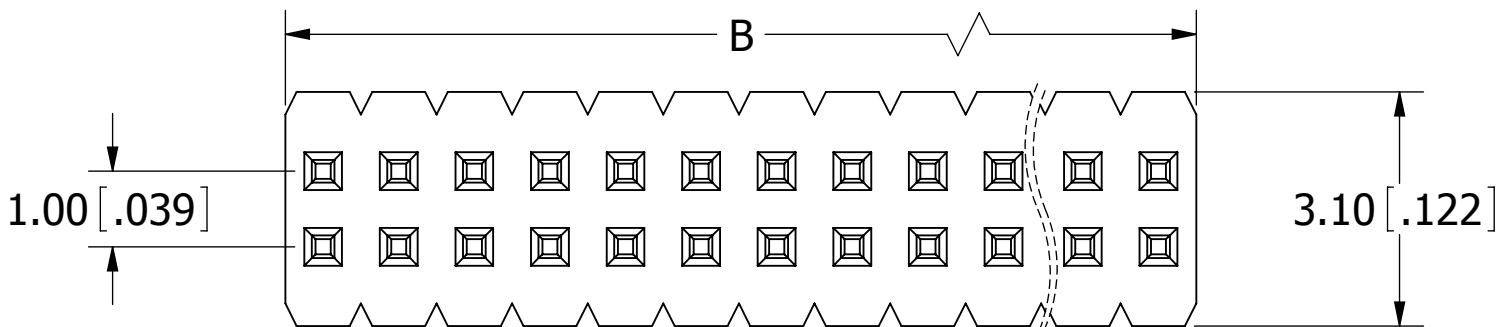
NUMBER OF POSITIONS

(CONTACTS PER ROW, 2 THRU 50)

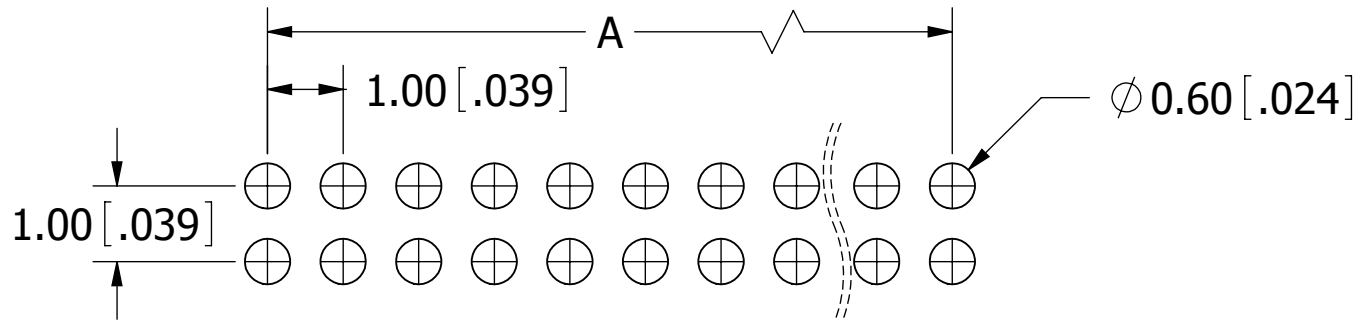
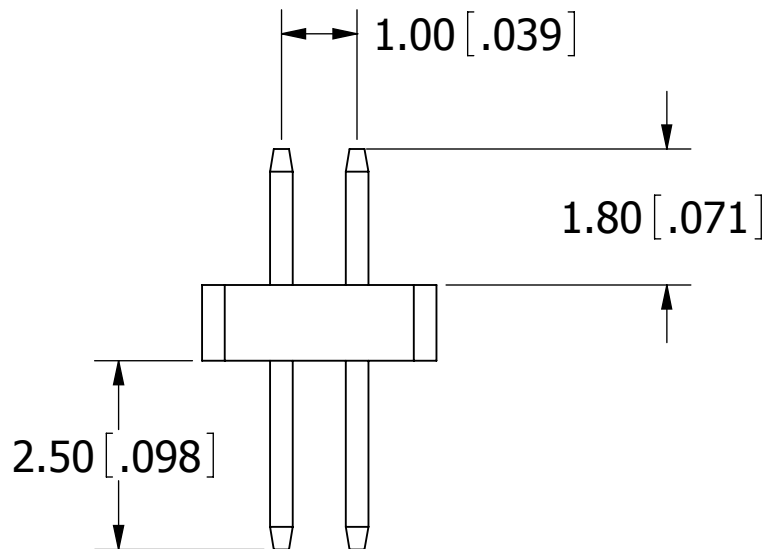
PLATING

P = GOLD FLASH OVERALL.

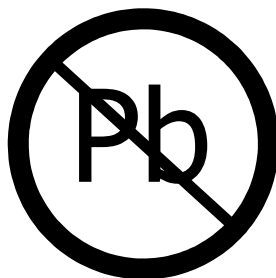
S = 10u" GOLD OVERALL.



02-20, 0.20mm MAX.  
21-50, 0.30mm MAX.

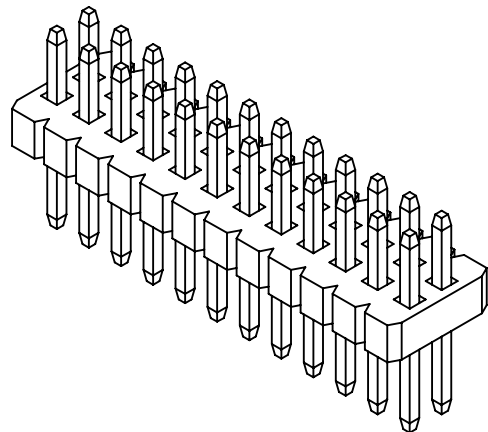


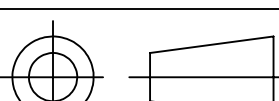
RECOMMENDED PCB LAYOUT



RoHS COMPLIANT

| REVISIONS |         |                 |          |    |
|-----------|---------|-----------------|----------|----|
| REV.      | ECO. NO | DESCRIPTION     | DATE     | BY |
| A         | 1910    | INITIAL RELEASE | 2/5/2009 | JH |



|                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 |                 |              |                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED:<br><br>DIMENSIONS ARE IN MM[INCHES]<br>TOLERANCES:<br>ANGULAR: ± 5°<br>.X=± .30 [.012]<br>.XX=± .20 [.008]<br>.XXX=± .10 [.004]<br>SURFACE FINISH: 63 Ra<br>REMOVE ALL BURRS AND SHARP EDGES .010 MAX<br><br>INTERPRET DIMENSIONS AND GEOMETRIC<br>TOLERANCING<br>PER: ANSI Y14.5M-1994 |                                                                                                                                                                                                                                                                 | DATE<br>2/05/09 | NAME<br>JH   |  <b>SULLINS</b><br>CONNECTOR SOLUTIONS |
|                                                                                                                                                                                                                                                                                                                     | THE INFORMATION HEREIN CONTAINS<br>PROPRIETARY INFORMATION OF<br>SULLINS ELECTRONICS AND IS NOT<br>TO BE REPRODUCED, USED OR<br>DISCLOSED TO OTHERS FOR ANY<br>PURPOSE EXCEPT AS SPECIFICALLY<br>AUTHORIZED IN WRITING BY AN<br>OFFICER OF SULLINS ELECTRONICS. |                 |              |                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                            |                 |              | DESCRIPTION<br><b>HEADER, MALE 1mm CC, 2 ROWS, ST</b><br><br><b>PART NUMBER</b><br><b>SMH100-LP_E-D_-ST-BK</b>              |
|                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 |                 |              | SIZE<br><b>C</b>                                                                                                            |
| SCALE: 10:1                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                 |                 | SHEET 1 OF 1 |                                                                                                                             |