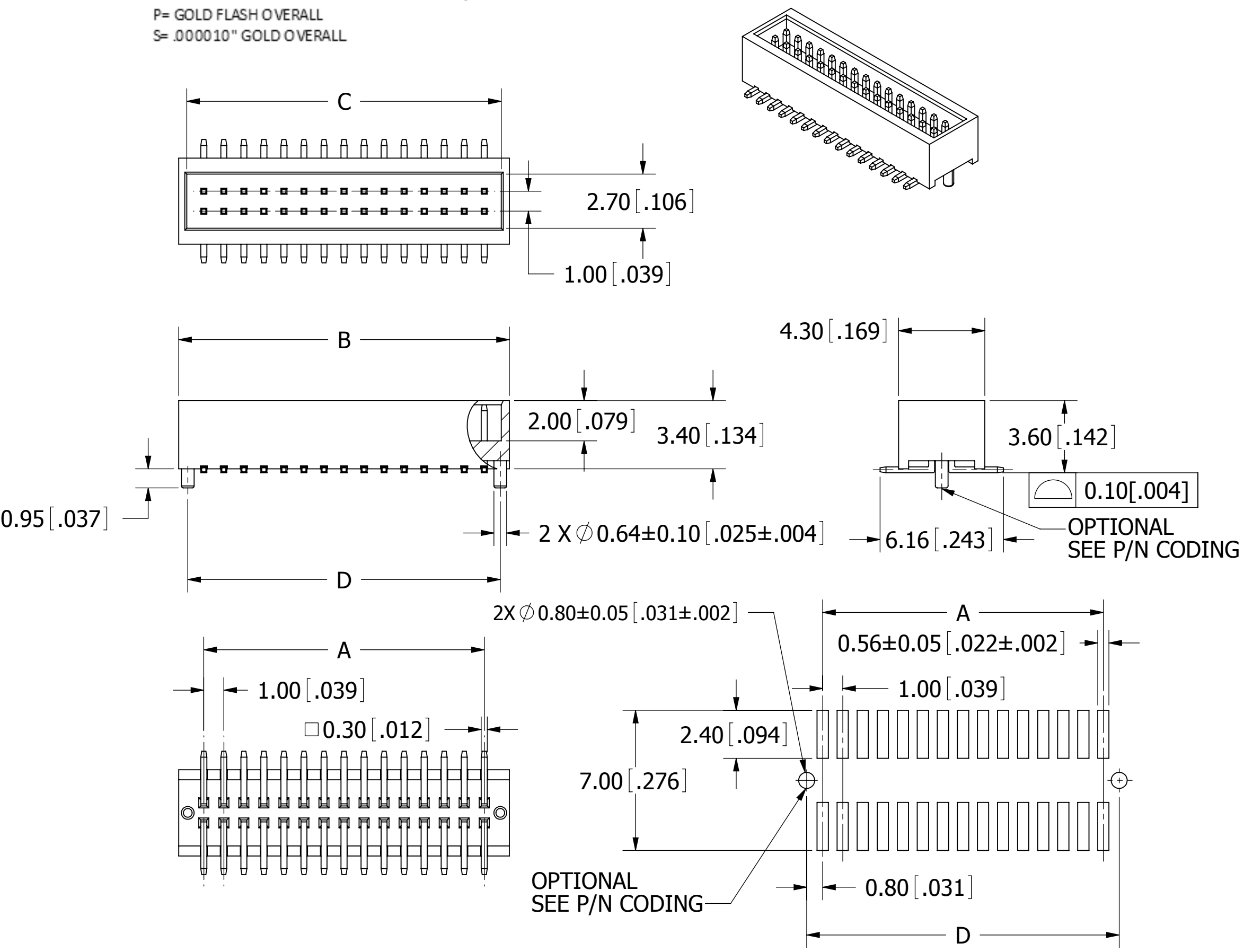


PART NUMBER CODING  
SBH51-LP\_E-D\_-S\_-BK

**TERMINATION**  
M= SURFACE MOUNT W/O GUIDE POSTS  
P= SURFACE MOUNT W/ GUIDE POSTS

**NUMBER OF POSITIONS**  
(CONTACTS PER ROW, 03 THRU 50)

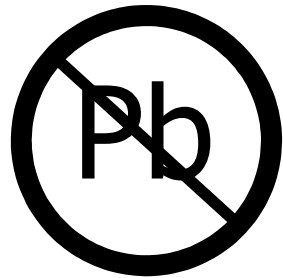
**PLATING**  
.000030" - .000050" NICKEL UNDERPLATE,  
P= GOLD FLASH OVERALL  
S= .000010" GOLD OVERALL



- NOTES:
1. INSULATOR MATERIAL: LCP, UL 94V-0, BLACK.
  2. CONTACT MATERIAL: PHOSPHOR BRONZE.
  3. CONTACT PLATING: SEE PART NUMBER CODING.
  4. CURRENT RATING: 1 AMP PER CONTACT.
  5. INSULATOR RESISTANCE: 1000 MEGA OHMS MIN.
  6. CONTACT RESISTANCE: 20 MILLIOHMS MAX.
  7. DIELECTRIC WITHSTANDING: 300V AC.
  8. OPERATING TEMPERATURE: -40° C TO +125° C.
  9. \*PROCESSING TEMP.: 230° C FOR 60 SECS MAX.  
(260° C FOR 10 SECS MAX.)
  10. MATES WITH SFM210 SERIES.

\*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.

RECOMMENDED PCB LAYOUT



RoHS COMPLIANT

| REVISIONS |         |                 |            |    |
|-----------|---------|-----------------|------------|----|
| REV.      | ECO. NO | DESCRIPTION     | DATE       | BY |
| A         | 2364    | INITIAL RELEASE | 06/08/2011 | LH |

| PART NUMBER          | POSITIONS/<br>CONTACTS | A     |       | B     |       | C     |       | D     |       |
|----------------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                      |                        | INCH  | MM    | INCH  | MM    | INCH  | MM    | INCH  | MM    |
| SBH51-LP_E-D03-S_-BK | 03/06                  | 0.079 | 2.00  | 0.079 | 4.50  | 0.177 | 3.70  | 0.146 | 3.60  |
| SBH51-LP_E-D04-S_-BK | 04/08                  | 0.118 | 3.00  | 0.118 | 5.50  | 0.217 | 4.70  | 0.185 | 4.60  |
| SBH51-LP_E-D05-S_-BK | 05/10                  | 0.157 | 4.00  | 0.157 | 6.50  | 0.256 | 5.70  | 0.224 | 5.60  |
| SBH51-LP_E-D06-S_-BK | 06/12                  | 0.197 | 5.00  | 0.197 | 7.50  | 0.295 | 6.70  | 0.264 | 6.60  |
| SBH51-LP_E-D07-S_-BK | 07/14                  | 0.236 | 6.00  | 0.236 | 8.50  | 0.335 | 7.70  | 0.303 | 7.60  |
| SBH51-LP_E-D08-S_-BK | 08/16                  | 0.276 | 7.00  | 0.276 | 9.50  | 0.374 | 8.70  | 0.343 | 8.60  |
| SBH51-LP_E-D09-S_-BK | 09/18                  | 0.315 | 8.00  | 0.315 | 10.50 | 0.413 | 9.70  | 0.382 | 9.60  |
| SBH51-LP_E-D10-S_-BK | 10/20                  | 0.354 | 9.00  | 0.354 | 11.50 | 0.453 | 10.70 | 0.421 | 10.60 |
| SBH51-LP_E-D11-S_-BK | 11/22                  | 0.394 | 10.00 | 0.394 | 12.50 | 0.492 | 11.70 | 0.461 | 11.60 |
| SBH51-LP_E-D12-S_-BK | 12/24                  | 0.433 | 11.00 | 0.433 | 13.50 | 0.531 | 12.70 | 0.500 | 12.60 |
| SBH51-LP_E-D13-S_-BK | 13/26                  | 0.472 | 12.00 | 0.472 | 14.50 | 0.571 | 13.70 | 0.539 | 13.60 |
| SBH51-LP_E-D14-S_-BK | 14/28                  | 0.512 | 13.00 | 0.512 | 15.50 | 0.610 | 14.70 | 0.579 | 14.60 |
| SBH51-LP_E-D15-S_-BK | 15/30                  | 0.551 | 14.00 | 0.551 | 16.50 | 0.650 | 15.70 | 0.618 | 15.60 |
| SBH51-LP_E-D16-S_-BK | 16/32                  | 0.591 | 15.00 | 0.591 | 17.50 | 0.689 | 16.70 | 0.657 | 16.60 |
| SBH51-LP_E-D17-S_-BK | 17/34                  | 0.630 | 16.00 | 0.630 | 18.50 | 0.728 | 17.70 | 0.697 | 17.60 |
| SBH51-LP_E-D18-S_-BK | 18/36                  | 0.669 | 17.00 | 0.669 | 19.50 | 0.768 | 18.70 | 0.736 | 18.60 |
| SBH51-LP_E-D19-S_-BK | 19/38                  | 0.709 | 18.00 | 0.709 | 20.50 | 0.807 | 19.70 | 0.776 | 19.60 |
| SBH51-LP_E-D20-S_-BK | 20/40                  | 0.748 | 19.00 | 0.748 | 21.50 | 0.846 | 20.70 | 0.815 | 20.60 |
| SBH51-LP_E-D21-S_-BK | 21/42                  | 0.787 | 20.00 | 0.787 | 22.50 | 0.886 | 21.70 | 0.854 | 21.60 |
| SBH51-LP_E-D22-S_-BK | 22/44                  | 0.827 | 21.00 | 0.827 | 23.50 | 0.925 | 22.70 | 0.894 | 22.60 |
| SBH51-LP_E-D23-S_-BK | 23/46                  | 0.866 | 22.00 | 0.866 | 24.50 | 0.965 | 23.70 | 0.933 | 23.60 |
| SBH51-LP_E-D24-S_-BK | 24/48                  | 0.906 | 23.00 | 0.906 | 25.50 | 1.004 | 24.70 | 0.972 | 24.60 |
| SBH51-LP_E-D25-S_-BK | 25/50                  | 0.945 | 24.00 | 0.945 | 26.50 | 1.043 | 25.70 | 1.012 | 25.60 |
| SBH51-LP_E-D26-S_-BK | 26/52                  | 0.984 | 25.00 | 0.984 | 27.50 | 1.083 | 26.70 | 1.051 | 26.60 |
| SBH51-LP_E-D27-S_-BK | 27/54                  | 1.024 | 26.00 | 1.024 | 28.50 | 1.122 | 27.70 | 1.091 | 27.60 |
| SBH51-LP_E-D28-S_-BK | 28/56                  | 1.063 | 27.00 | 1.063 | 29.50 | 1.161 | 28.70 | 1.130 | 28.60 |
| SBH51-LP_E-D29-S_-BK | 29/58                  | 1.102 | 28.00 | 1.102 | 30.50 | 1.201 | 29.70 | 1.169 | 29.60 |
| SBH51-LP_E-D30-S_-BK | 30/60                  | 1.142 | 29.00 | 1.142 | 31.50 | 1.240 | 30.70 | 1.209 | 30.60 |
| SBH51-LP_E-D31-S_-BK | 31/62                  | 1.181 | 30.00 | 1.181 | 32.50 | 1.280 | 31.70 | 1.248 | 31.60 |
| SBH51-LP_E-D32-S_-BK | 32/64                  | 1.220 | 31.00 | 1.220 | 33.50 | 1.319 | 32.70 | 1.287 | 32.60 |
| SBH51-LP_E-D33-S_-BK | 33/66                  | 1.260 | 32.00 | 1.260 | 34.50 | 1.358 | 33.70 | 1.327 | 33.60 |
| SBH51-LP_E-D34-S_-BK | 34/68                  | 1.299 | 33.00 | 1.299 | 35.50 | 1.398 | 34.70 | 1.366 | 34.60 |
| SBH51-LP_E-D35-S_-BK | 35/70                  | 1.339 | 34.00 | 1.339 | 36.50 | 1.437 | 35.70 | 1.406 | 35.60 |
| SBH51-LP_E-D36-S_-BK | 36/72                  | 1.378 | 35.00 | 1.378 | 37.50 | 1.476 | 36.70 | 1.445 | 36.60 |
| SBH51-LP_E-D37-S_-BK | 37/74                  | 1.417 | 36.00 | 1.417 | 38.50 | 1.516 | 37.70 | 1.484 | 37.60 |
| SBH51-LP_E-D38-S_-BK | 38/76                  | 1.457 | 37.00 | 1.457 | 39.50 | 1.555 | 38.70 | 1.524 | 38.60 |
| SBH51-LP_E-D39-S_-BK | 39/78                  | 1.496 | 38.00 | 1.496 | 40.50 | 1.594 | 39.70 | 1.563 | 39.60 |
| SBH51-LP_E-D40-S_-BK | 40/80                  | 1.535 | 39.00 | 1.535 | 41.50 | 1.634 | 40.70 | 1.602 | 40.60 |
| SBH51-LP_E-D41-S_-BK | 41/82                  | 1.575 | 40.00 | 1.575 | 42.50 | 1.673 | 41.70 | 1.642 | 41.60 |
| SBH51-LP_E-D42-S_-BK | 42/84                  | 1.614 | 41.00 | 1.614 | 43.50 | 1.713 | 42.70 | 1.681 | 42.60 |
| SBH51-LP_E-D43-S_-BK | 43/86                  | 1.654 | 42.00 | 1.654 | 44.50 | 1.752 | 43.70 | 1.720 | 43.60 |
| SBH51-LP_E-D44-S_-BK | 44/88                  | 1.693 | 43.00 | 1.693 | 45.50 | 1.791 | 44.70 | 1.760 | 44.60 |
| SBH51-LP_E-D45-S_-BK | 45/90                  | 1.732 | 44.00 | 1.732 | 46.50 | 1.831 | 45.70 | 1.799 | 45.60 |
| SBH51-LP_E-D46-S_-BK | 46/92                  | 1.772 | 45.00 | 1.772 | 47.50 | 1.870 | 46.70 | 1.839 | 46.60 |
| SBH51-LP_E-D47-S_-BK | 47/94                  | 1.811 | 46.00 | 1.811 | 48.50 | 1.909 | 47.70 | 1.878 | 47.60 |
| SBH51-LP_E-D48-S_-BK | 48/96                  | 1.850 | 47.00 | 1.850 | 49.50 | 1.949 | 48.70 | 1.917 | 48.60 |
| SBH51-LP_E-D49-S_-BK | 49/98                  | 1.890 | 48.00 | 1.890 | 50.50 | 1.988 | 49.70 | 1.957 | 49.60 |
| SBH51-LP_E-D50-S_-BK | 50/100                 | 1.929 | 49.00 | 1.929 | 51.50 | 2.028 | 50.70 | 1.996 | 50.60 |

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM[INCHES]

TOLERANCES: ANGULAR:  
.X=  $\pm$  .3 [.01]  
.XX=  $\pm$  .20 [.008]  
.XXX=  $\pm$  .100 [.0040]

INTERPRET DIMENSIONS  
AND TOLERANCING  
PER: ASME Y14.5M-2009

DRAWN  
06/08/2011

DATE  
LH

NAME

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OFFICER OF SULLINS ELECTRONICS.

TITLE  
BOX HEADER, 1.00mm[.039"] CC/RS, SMT

PART NUMBER  
SBH51-LP\_E-D\_-S\_-BK

SIZE  
C

CAGE CODE  
54453

DWG. NO.  
11775

REV  
A

SCALE: 5:1

SHEET 1 OF 1