

| REVISIONS |         |                                 |            |    |
|-----------|---------|---------------------------------|------------|----|
| REV.      | ECO. NO | DESCRIPTION                     | DATE       | BY |
| A         | 1682    | INITIAL RELEASE                 | 5/15/2008  | VJ |
| B         | 1852    | UPDATE NOTE 3 & TOLERANCE BLOCK | 11/13/2008 | JH |

## PART NUMBER CODING

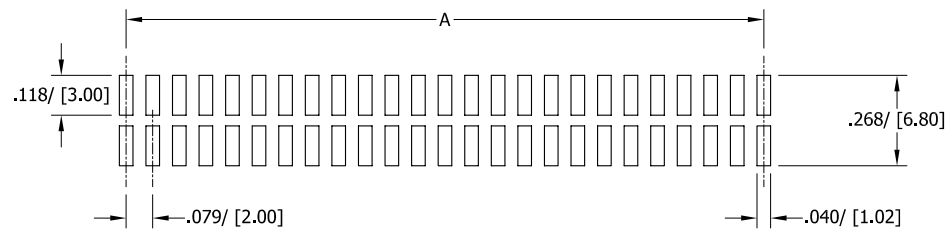
SBH21 - NBPN - D \_ \_ - SM - \_ \_

**NUMBER OF POSITIONS**  
(CONTACTS PER ROW)

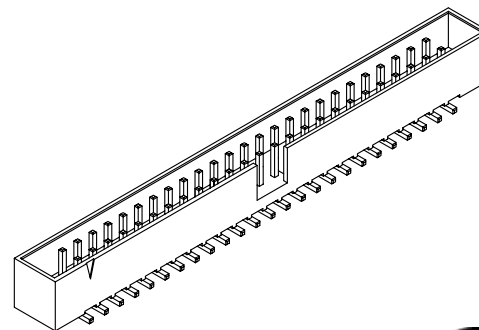
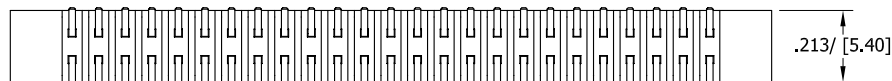
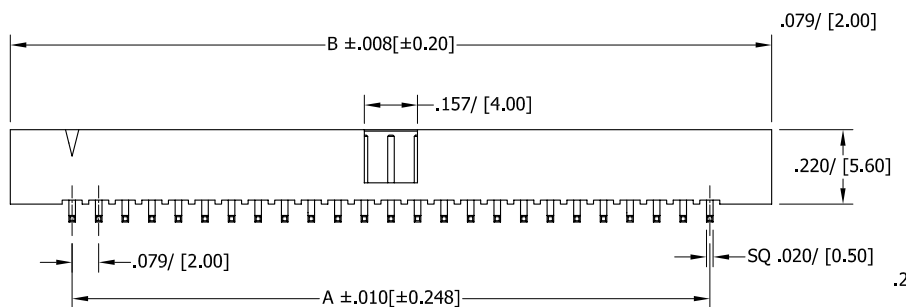
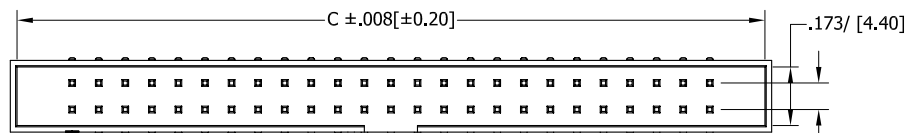
**TERMINATION**  
SURFACE MOUNT

**COLOR**

BK = BLACK  
YE = YELLOW  
RE = RED  
BL = BLUE  
GR = GREEN  
GY = GREY  
WH = WHITE  
OR = ORANGE



RECOMMENDED PCB LAYOUT



### NOTES:

1. INSULATOR MATERIAL: NYLON 6T.
2. CONTACT MATERIAL: BRASS.
3. PLATING: GOLD FLASH OVERALL.
4. OPERATING TEMPERATURE: -40°C ~ 85°C.
5. PROCESSING TEMP: 230°C FOR 60 SECONDS MAX.  
(260°C, 10 SEC.)
6. UL FLAMMABILITY RATING: 94V-0.
7. VOLTAGE RATING: 20m OHMS MAX.
8. CURRENT RATING: 2 AMP PER CONTACT.
9. VOLTAGE DROP: AC 500 V.
10. INSULATION RESISTANCE: 1000 MEGA OHMS.

| PART NUMBER        | POSITIONS/<br>CONTACTS | A     |       | B     |       | C     |       |
|--------------------|------------------------|-------|-------|-------|-------|-------|-------|
|                    |                        | INCH  | MM    | INCH  | MM    | INCH  | MM    |
| SBH21-NBPN-D03-SM- | 3/6                    | 0.157 | 4.00  | 0.524 | 13.30 | 0.484 | 12.30 |
| SBH21-NBPN-D04-SM- | 4/8                    | 0.236 | 6.00  | 0.602 | 15.30 | 0.563 | 14.30 |
| SBH21-NBPN-D05-SM- | 5/10                   | 0.315 | 8.00  | 0.681 | 17.30 | 0.642 | 16.30 |
| SBH21-NBPN-D06-SM- | 6/12                   | 0.394 | 10.00 | 0.760 | 19.30 | 0.720 | 18.30 |
| SBH21-NBPN-D07-SM- | 7/14                   | 0.472 | 12.00 | 0.839 | 21.30 | 0.799 | 20.30 |
| SBH21-NBPN-D08-SM- | 8/16                   | 0.551 | 14.00 | 0.917 | 23.30 | 0.878 | 22.30 |
| SBH21-NBPN-D09-SM- | 9/18                   | 0.630 | 16.00 | 0.996 | 25.30 | 0.957 | 24.30 |
| SBH21-NBPN-D10-SM- | 10/20                  | 0.709 | 18.00 | 1.075 | 27.30 | 1.035 | 26.30 |
| SBH21-NBPN-D11-SM- | 11/22                  | 0.787 | 20.00 | 1.154 | 29.30 | 1.114 | 28.30 |
| SBH21-NBPN-D12-SM- | 12/24                  | 0.866 | 22.00 | 1.232 | 31.30 | 1.193 | 30.30 |
| SBH21-NBPN-D13-SM- | 13/26                  | 0.945 | 24.00 | 1.311 | 33.30 | 1.272 | 32.30 |
| SBH21-NBPN-D14-SM- | 14/28                  | 1.024 | 26.00 | 1.390 | 35.30 | 1.350 | 34.30 |
| SBH21-NBPN-D15-SM- | 15/30                  | 1.102 | 28.00 | 1.469 | 37.30 | 1.429 | 36.30 |
| SBH21-NBPN-D16-SM- | 16/32                  | 1.181 | 30.00 | 1.547 | 39.30 | 1.508 | 38.30 |
| SBH21-NBPN-D17-SM- | 17/34                  | 1.260 | 32.00 | 1.626 | 41.30 | 1.587 | 40.30 |
| SBH21-NBPN-D18-SM- | 18/36                  | 1.339 | 34.00 | 1.705 | 43.30 | 1.665 | 42.30 |
| SBH21-NBPN-D19-SM- | 19/38                  | 1.417 | 36.00 | 1.783 | 45.30 | 1.744 | 44.30 |
| SBH21-NBPN-D20-SM- | 20/40                  | 1.496 | 38.00 | 1.862 | 47.30 | 1.823 | 46.30 |
| SBH21-NBPN-D22-SM- | 22/44                  | 1.654 | 42.00 | 2.020 | 51.30 | 1.902 | 48.30 |
| SBH21-NBPN-D25-SM- | 25/50                  | 1.890 | 48.00 | 2.256 | 57.30 | 1.980 | 50.30 |
| SBH21-NBPN-D27-SM- | 27/54                  | 2.047 | 52.00 | 2.413 | 61.30 | 2.059 | 52.30 |
| SBH21-NBPN-D28-SM- | 28/56                  | 2.126 | 54.00 | 2.492 | 63.30 | 2.138 | 54.30 |
| SBH21-NBPN-D30-SM- | 30/60                  | 2.283 | 58.00 | 2.650 | 67.30 | 2.217 | 56.30 |
| SBH21-NBPN-D31-SM- | 31/62                  | 2.362 | 60.00 | 2.728 | 69.30 | 2.295 | 58.30 |
| SBH21-NBPN-D32-SM- | 32/64                  | 2.441 | 62.00 | 2.807 | 71.30 | 2.374 | 60.30 |
| SBH21-NBPN-D34-SM- | 34/68                  | 2.598 | 66.00 | 2.965 | 75.30 | 2.453 | 62.30 |

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES[MM]  
TOLERANCES:  
ANGULAR: ± 1°  
.XX= ±.012 [0.30]  
.XXX= ±.008 [0.20]  
.XXXX= ±.004 [0.10]  
PARENTHESES INFORMATION IS FOR  
REFERENCE ONLY

INTERPRET DIMENSIONS AND GEOMETRIC  
TOLERANCING  
PER: ANSI Y14.5-1984

| DRAWN   | DATE      | NAME |
|---------|-----------|------|
| V. JARA | 5/15/2008 |      |

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PROPRIETARY INFORMATION OF  
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OFFICER OF SULLINS ELECTRONICS.

| SULLINS<br>CONNECTOR SOLUTIONS              |                   |
|---------------------------------------------|-------------------|
| DESCRIPTION<br>BOX HEADER, .079[2.00] CC/RS |                   |
| PART NUMBER<br>SBH21-NBPN-D _ _ - SM - _ _  |                   |
| SIZE<br>C                                   | DWG. NO.<br>11097 |
| SCALE: NONE                                 | REV<br>B          |
| SHEET 1 OF 1                                |                   |

RoHS COMPLIANT