

| REVISIONS |         |                                              |           |     |
|-----------|---------|----------------------------------------------|-----------|-----|
| REV.      | ECO. NO | DESCRIPTION                                  | DATE      | BY  |
| C         | 985     | REDRAW/REVISE. ALL AVAILABLE MOUNTINGS ADDED | 04/12/06  | MNH |
| D         | 1346    | ADDED METRIC DIMENSIONS, TABULATED MATERIALS | 06/29/07  | ASK |
| E         | 1810    | ADD HB TERMINATION, UPDATE LAYOUT            | 9/25/2008 | ASK |

**MATERIAL (INSULATOR/CONTACT)**

**E = BLACK, PBT/PHOSPHOR BRONZE**  
OPERATING TEMP: -65°C TO +125°C  
PROCESSING TEMP: 260°C FOR 10 SECS MAX

**R = BLACK, PPS/PHOSPHOR BRONZE**  
OPERATING TEMP: -65°C TO +125°C  
PROCESSING TEMP: 260°C FOR 120 SECS MAX

**G = BLACK, PA9T/PHOSPHOR BRONZE**  
OPERATING TEMP: -65°C TO +125°C  
PROCESSING TEMP: 260°C FOR 120 SECS MAX

**H = BLACK, PBT/BERYLLIUM COPPER**  
OPERATING TEMP: -65°C TO +125°C  
PROCESSING TEMP: 260°C FOR 10 SECS MAX

**A = BLACK, PPS/BERYLLIUM COPPER**  
OPERATING TEMP: -65°C TO +150°C  
PROCESSING TEMP: 260°C FOR 120 SECS MAX

**J = BLACK, PA9T/BERYLLIUM COPPER**  
OPERATING TEMP: -65°C TO +150°C  
PROCESSING TEMP: 260°C FOR 120 SECS MAX  
(CONSULT FACTORY FOR OTHER MATERIALS)

**PART NUMBER CODING**

**B** **D**

**MOUNTING STYLE**

D = .250" EARS, FLUSH MOUNTING  
N = NO MOUNTING EARS  
A = SIDE MOUNTING WITH #4-40 THREADED INSERTS  
R = NO MOUNTING EARS, WITH BOARD LOCKS  
S = SIDE MOUNTING  
T = .250" EARS, FLUSH MOUNTING WITH #4-40 THD INSERTS

**TERMINATION TYPE**

HA = .100" [2.54 mm] STAGGERED DIP SOLDER, .050" CENTERS  
HB = .170" [4.32 mm] STAGGERED DIP SOLDER, .050" CENTERS

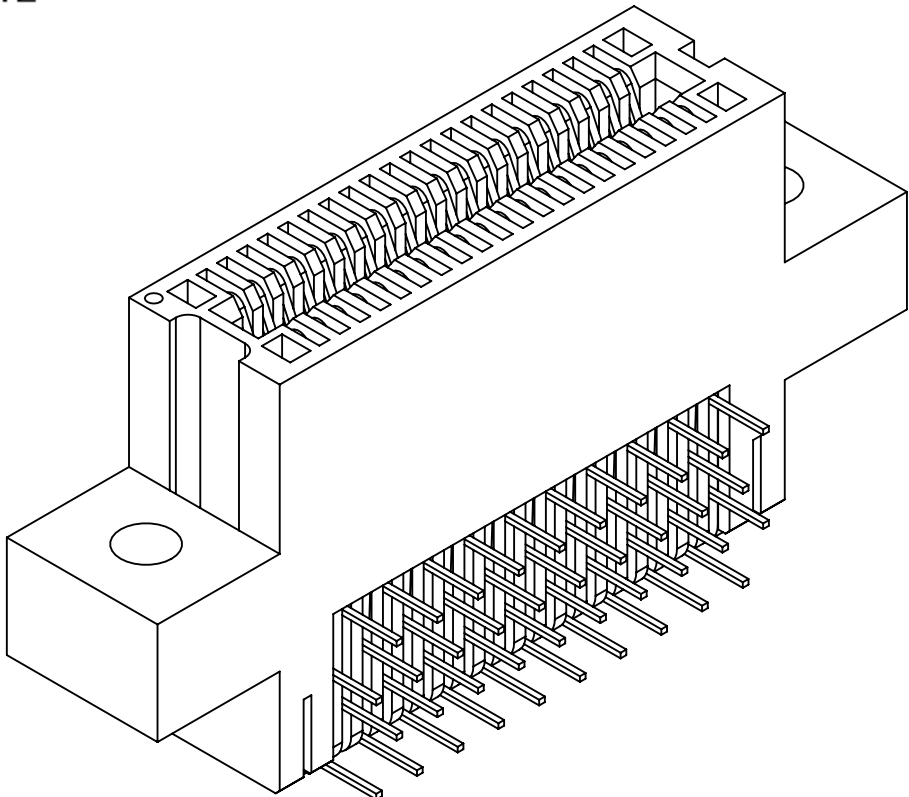
**NUMBER OF POSITIONS**

**PLATING**

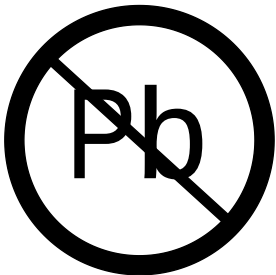
ALL PLATINGS ARE LEAD FREE AND HAVE .000050" NICKEL UNDERPLATE

| CONTACT SURFACE   | TERMINATION              |
|-------------------|--------------------------|
| B = .000010" GOLD | .000100" PURE TIN, MATTE |
| C = .000030" GOLD | .000100" PURE TIN, MATTE |

- NOTES:
- MATERIALS:
    - INSULATOR: SEE PART NUMBER CODING.
    - CONTACT: SEE PART NUMBER CODING.
    - PLATING: SEE PART NUMBER CODING.
  - THERMAL:
    - OPERATING TEMPERATURE: SEE PART NUMBER CODING.
    - PROCESSING TEMP: SEE PART NUMBER CODING.
    - UL FLAMMABILITY RATING: 94V-0.
  - ELECTRICAL:
    - DIELECTRIC WITHSTANDING VOLTAGE: MATED CONNECTOR MUST EXHIBIT NO EVIDENCE OF BREAKDOWN, FLASHOVER, OR DETERIORATION FROM AN APPLIED VOLTAGE OF 300 VAC (VALUE HAS BEEN DE-RATED), RMS 60 Hz WHEN TESTED IN ACCORDANCE WITH MIL-STD-1344, METHOD 3001. DURATION OF APPLICATION SHALL BE 5 SECS MIN.
    - INSULATION RESISTANCE (IR): 5,000 MEGOHMS @ 500 VOLTS ±10% WHEN TESTED IN ACCORDANCE WITH MIL-STD-1344, METHOD 3003 @ 25 °C.
    - CONTACT RESISTANCE: 30 MILLIOHM MAX AT RATED CURRENT WHEN TESTED PER MIL-STD-202, METHOD 307 @ 25 °C ±3 °C.
    - CURRENT RATING: 1 AMP PER CONTACT.
  - MECHANICAL:
    - CONNECTOR IDENTIFICATION: THE PART SHALL BE MARKED WITH A LOT CODE AS A MINIMUM. IF SPACE PERMITS ALSO MARK PART WITH SULLINS WEBSITE, AND PART NUMBER.
    - DURABILITY: 500 CYCLES MINIMUM.
    - BOARD THICKNESS ACCOMMODATED: .062 ± .008"
    - BOARD INSERTION FORCE: 16 OZ MAX PER CONTACT PAIR WHEN USING A .062" TEST BLADE. INTERNAL INSPECTION TO BE PER SULLIN'S WORK INSTRUCTION W17.3-01.
    - BOARD WITHDRAWAL FORCE: 1 OUNCE MINIMUM PER CONTACT PAIR USING .062" PCB.

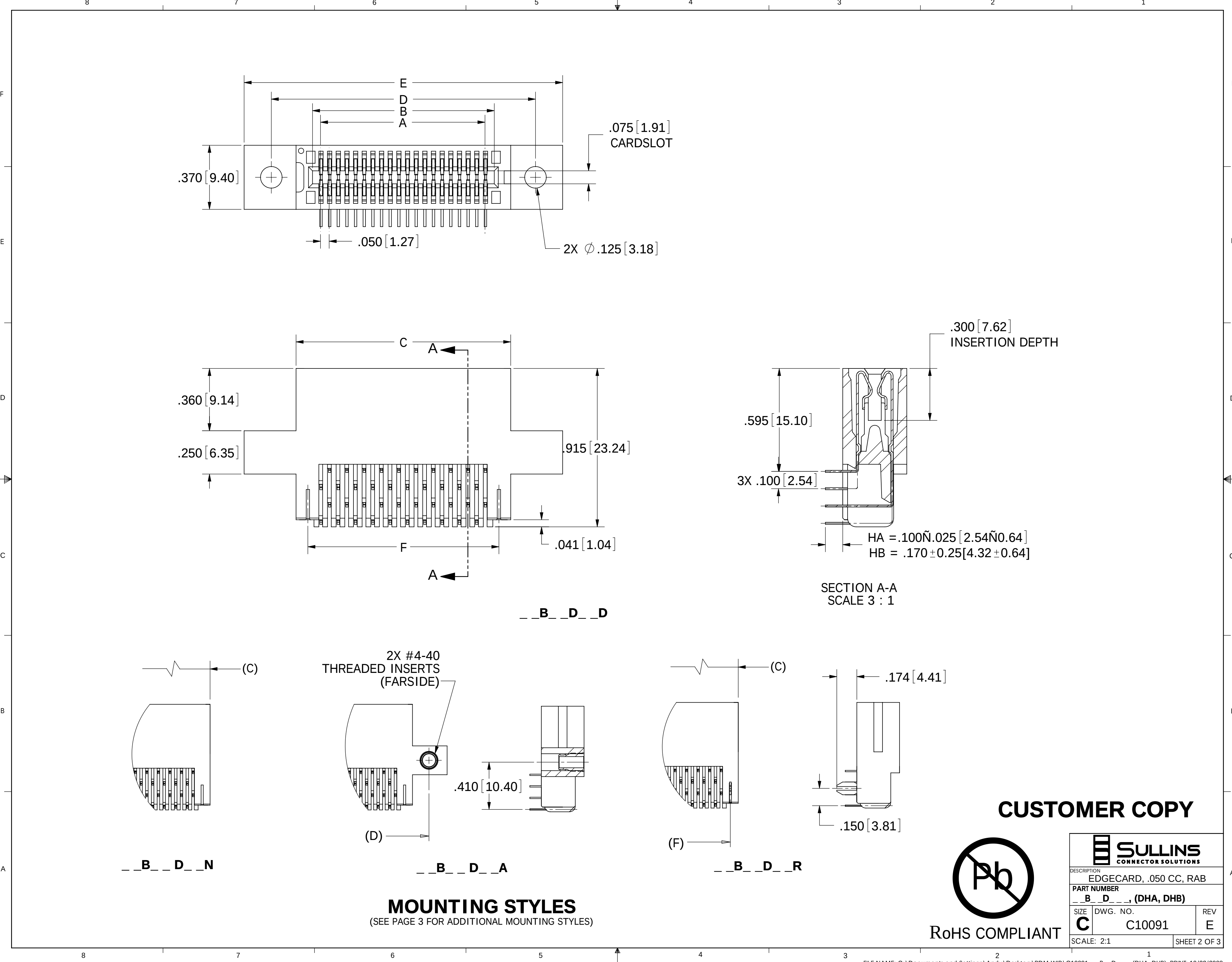


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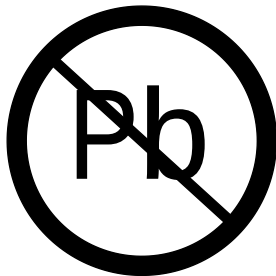


RoHS COMPLIANT

|                                                                                                                                                                                                                                            |                                        |             |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------|------------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES[MM]<br>TOLERANCES:<br>ANGULAR: ± 30°<br>.XX=± .02 [.508]<br>.XXX=± .005 [.127]<br>.XXXX=± .0005 [.0127]<br>SURFACE FINISH: 63 Ra<br>REMOVE ALL BURRS AND SHARP EDGES .010 MAX      | DATE<br>04/12/06                       | NAME<br>MNH |            |
| THE INFORMATION HEREIN CONTAINS PROPRIETARY INFORMATION OF SULLINS ELECTRONICS AND IS NOT TO BE REPRODUCED, USED OR DISCLOSED TO OTHERS FOR ANY PURPOSE EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY AN OFFICER OF SULLINS ELECTRONICS. | DESCRIPTION<br>EDGE CARD, .050 CC, RAB |             |            |
| PART NUMBER<br>_ _ B _ D _ _ , (DHA, DHB)                                                                                                                                                                                                  |                                        |             | SIZE<br>C  |
| DWG. NO.<br>C10091                                                                                                                                                                                                                         |                                        |             |            |
| REV<br>E                                                                                                                                                                                                                                   |                                        |             | SCALE: 3:1 |
| SHEET 1 OF 3                                                                                                                                                                                                                               |                                        |             |            |



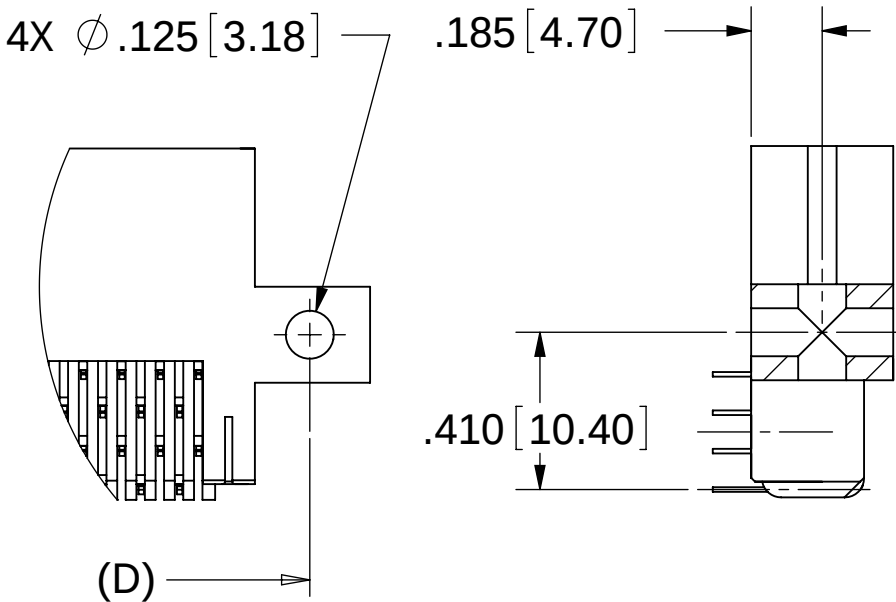
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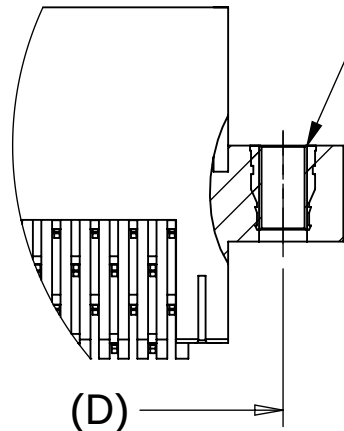
|                                        |                    |              |
|----------------------------------------|--------------------|--------------|
|                                        |                    |              |
| DESCRIPTION<br>EDGE CARD, .050 CC, RAB |                    |              |
| PART NUMBER<br>__B__D__, (DHA, DHB)    |                    |              |
| SIZE<br><b>C</b>                       | DWG. NO.<br>C10091 | REV<br>E     |
| SCALE: 2:1                             |                    | SHEET 2 OF 3 |

| PART NUMBER | NO OF POSITIONS | A±.005[0.13] |        | B±.005[0.13] |        | C±.015[0.38] |        | D±.010[0.25]      |        | E±.020[0.51] |        | F±.010[0.25] |        |
|-------------|-----------------|--------------|--------|--------------|--------|--------------|--------|-------------------|--------|--------------|--------|--------------|--------|
|             |                 | IN           | MM     | IN           | MM     | IN           | MM     | IN                | MM     | IN           | MM     | IN           | MM     |
| __B05D__    | 5               | 0.200        | 5.08   | 0.300        | 7.62   | 0.490        | 12.45  | 0.776             | 19.71  | 1.090        | 27.69  | 0.350        | 8.89   |
| __B06D__    | 6               | 0.250        | 6.35   | 0.350        | 8.89   | 0.540        | 13.72  | 0.826             | 20.98  | 1.140        | 28.96  | 0.400        | 10.16  |
| __B09D__    | 9               | 0.400        | 10.16  | 0.500        | 12.70  | 0.690        | 17.53  | 0.976             | 24.79  | 1.290        | 32.77  | 0.550        | 13.97  |
| __B10D__    | 10              | 0.450        | 11.43  | 0.550        | 13.97  | 0.740        | 18.80  | 1.026             | 26.06  | 1.340        | 34.04  | 0.600        | 15.24  |
| __B13D__    | 13              | 0.600        | 15.24  | 0.700        | 17.78  | 0.890        | 22.61  | 1.176             | 29.87  | 1.490        | 37.85  | 0.750        | 19.05  |
| __B14D__    | 14              | 0.650        | 16.51  | 0.750        | 19.05  | 0.940        | 23.88  | 1.226             | 31.14  | 1.540        | 39.12  | 0.800        | 20.32  |
| __B15D__    | 15              | 0.700        | 17.78  | 0.800        | 20.32  | 0.990        | 25.15  | 1.276             | 32.41  | 1.590        | 40.39  | 0.850        | 21.59  |
| __B20D__    | 20              | 0.950        | 24.13  | 1.050        | 26.67  | 1.240        | 31.50  | 1.526             | 38.76  | 1.840        | 46.74  | 1.100        | 27.94  |
| __B22D__    | 22              | 1.050        | 26.67  | 1.150        | 29.21  | 1.340        | 34.04  | 1.626             | 41.30  | 1.940        | 49.28  | 1.200        | 30.48  |
| __B25D__    | 25              | 1.200        | 30.48  | 1.300        | 33.02  | 1.490        | 37.85  | 1.776             | 45.11  | 2.090        | 53.09  | 1.350        | 34.29  |
| __B30D__    | 30              | 1.450        | 36.83  | 1.550        | 39.37  | 1.740        | 44.20  | 2.026             | 51.46  | 2.340        | 59.44  | 1.600        | 40.64  |
| __B34D__    | 34              | 1.650        | 41.91  | 1.750        | 44.45  | 1.940        | 49.28  | 2.226             | 56.54  | 2.540        | 64.52  | 1.800        | 45.72  |
| __B35D__    | 35              | 1.700        | 43.18  | 1.800        | 45.72  | 1.990        | 50.55  | 2.276             | 57.81  | 2.590        | 65.79  | 1.850        | 46.99  |
| __B40D__    | 40              | 1.950        | 49.53  | 2.050        | 52.07  | 2.240        | 56.90  | 2.526             | 64.16  | 2.840        | 72.14  | 2.100        | 53.34  |
| __B45D__    | 45              | 2.200        | 55.88  | 2.300        | 58.42  | 2.490        | 63.25  | 2.776             | 70.51  | 3.090        | 78.49  | 2.350        | 59.69  |
| __B50D__    | 50              | 2.450        | 62.23  | 2.550        | 64.77  | 2.740        | 69.60  | 3.026             | 76.86  | 3.340        | 84.84  | 2.600        | 66.04  |
| __B55D__    | 55              | 2.700        | 68.58  | 2.800        | 71.12  | 2.990        | 75.95  | 3.276             | 83.21  | 3.590        | 91.19  | 2.850        | 72.39  |
| __B60D__    | 60              | 2.950        | 74.93  | 3.050        | 77.47  | 3.240        | 82.30  | 3.526             | 89.56  | 3.840        | 97.54  | 3.100        | 78.74  |
| __B64D__    | 64              | 3.150        | 80.01  | 3.250        | 82.55  | 3.440        | 87.38  | 3.726             | 94.64  | 4.040        | 102.62 | 3.300        | 83.82  |
| __B65D__    | 65              | 3.200        | 81.28  | 3.300        | 83.82  | 3.490        | 88.65  | 3.776             | 95.91  | 4.090        | 103.89 | 3.350        | 85.09  |
| __B66D__    | 66              | 3.250        | 82.55  | 3.350        | 85.09  | 3.540        | 89.92  | 3.826             | 97.18  | 4.140        | 105.16 | 3.400        | 86.36  |
| __B70D__    | 70              | 3.450        | 87.63  | 3.550        | 90.17  | 3.740        | 95.00  | 4.026             | 102.26 | 4.340        | 110.24 | 3.600        | 91.44  |
| __B75D__    | 75              | 3.700        | 93.98  | 3.800        | 96.52  | 3.990        | 101.35 | 4.276             | 108.61 | 4.590        | 116.59 | 3.850        | 97.79  |
| __B80D__    | 80              | 3.950        | 100.33 | 4.050        | 102.87 | 4.240        | 107.70 | 4.526             | 114.96 | 4.840        | 122.94 | 4.100        | 104.14 |
| __B85D__    | 85              | 4.200        | 106.68 | 4.300        | 109.22 | 4.490        | 114.05 | 4.776             | 121.31 | 5.090        | 129.29 | 4.350        | 110.49 |
| __B90D__    | 90              | 4.450        | 113.03 | 4.550        | 115.57 | 4.740        | 120.40 | 5.026             | 127.66 | 5.340        | 135.64 | 4.600        | 116.84 |
| __B95D__    | 95              | 4.700        | 119.38 | 4.800        | 121.92 | 4.990        | 126.75 | 5.276             | 134.01 | 5.590        | 141.99 | 4.850        | 123.19 |
| __B100D__   | 100             | 4.950        | 125.73 | 5.050        | 128.27 | 5.240        | 133.10 | 5.526             | 140.36 | 5.840        | 148.34 | 5.100        | 129.54 |
| __B105D__   | 105             | 5.200        | 132.08 | 5.300        | 134.62 | 5.490        | 139.45 | 5.776             | 146.71 | 6.090        | 154.69 | 5.350        | 135.89 |
| __B108D__   | 108             | 5.350        | 135.89 | 5.450        | 138.43 | 5.640        | 143.26 | 5.926             | 150.52 | 6.240        | 158.50 | 5.500        | 139.70 |
| __B110D__   | 110             | 5.450        | 138.43 | 5.550        | 140.97 | 5.740        | 145.80 | 6.026             | 153.06 | 6.340        | 161.04 | 5.600        | 142.24 |
| __B120D__   | 120             | 5.950        | 151.13 | 6.050        | 153.67 | 6.240        | 158.50 | "N" MOUNTING ONLY |        |              |        | 6.100        | 154.94 |



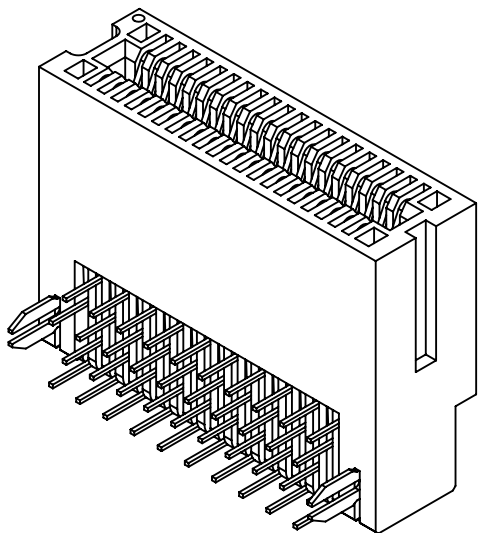
\_\_B\_\_D\_\_S

2X # 4-40  
THREADED INSERTS

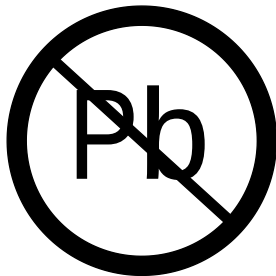


\_\_B\_\_D\_\_T

MOUNTING STYLES



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RoHS COMPLIANT

|                                        |                    |              |
|----------------------------------------|--------------------|--------------|
|                                        |                    |              |
| DESCRIPTION<br>EDGE CARD, .050 CC, RAB |                    |              |
| PART NUMBER<br>__B__D__, (DHA, DHB)    |                    |              |
| SIZE<br>C                              | DWG. NO.<br>C10091 | REV<br>E     |
| SCALE: 4:1                             |                    | SHEET 3 OF 3 |