

| 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

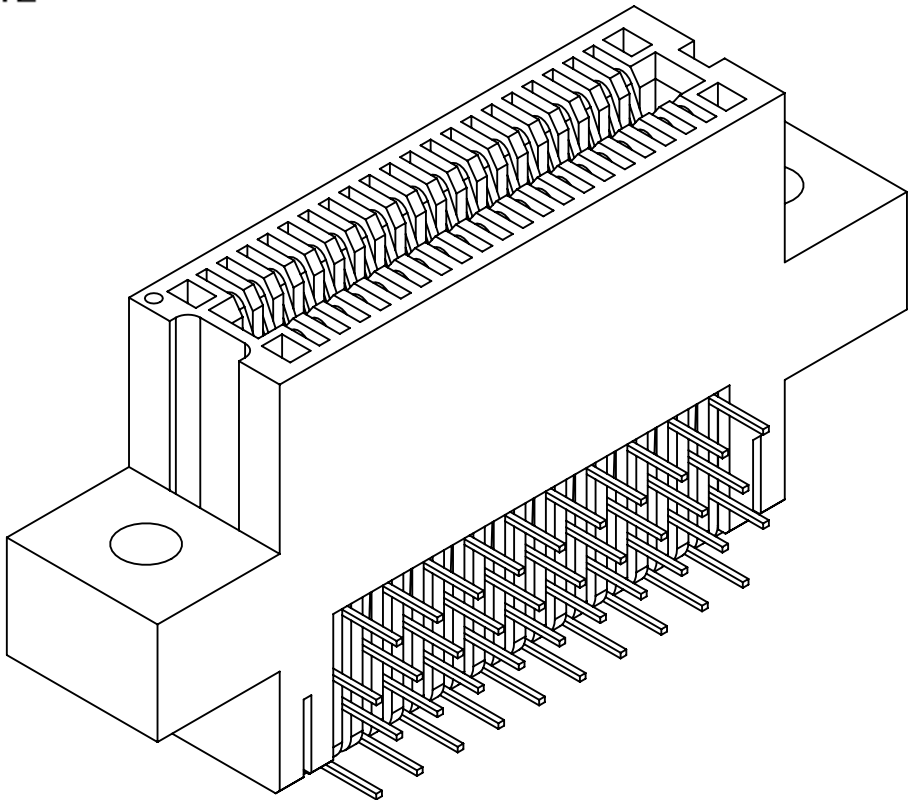
B = .000010" GOLD

C = .000030" GOLD

TERMINATION

.000100" PURE TIN, MATTE

.000100" PURE TIN, MATTE



NOTES:

1. MATERIALS:

- A. INSULATOR: SEE PART NUMBER CODING.
- B. CONTACT: SEE PART NUMBER CODING.
- C. PLATING: SEE PART NUMBER CODING.

2. THERMAL:

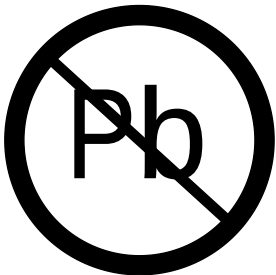
- A. OPERATING TEMPERATURE: SEE PART NUMBER CODING.
- B. PROCESSING TEMP: SEE PART NUMBER CODING.
- C. UL FLAMMABILITY RATING: 94V-0.

3. ELECTRICAL:

- A. 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.
- B. INSULATION RESISTANCE (IR): 5,000 MEGOHMS @ 500 VOLTS ±10% WHEN TESTED IN ACCORDANCE WITH MIL-STD-1344, METHOD 3003 @ 25°C.
- C. CONTACT RESISTANCE: 30 MILLIOHM MAX AT RATED CURRENT WHEN TESTED PER MIL-STD-202, METHOD 307 @ 25°C ±3°C.
- D. CURRENT RATING: 1 AMP PER CONTACT.

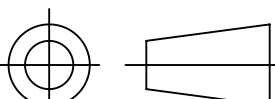
4. MECHANICAL:

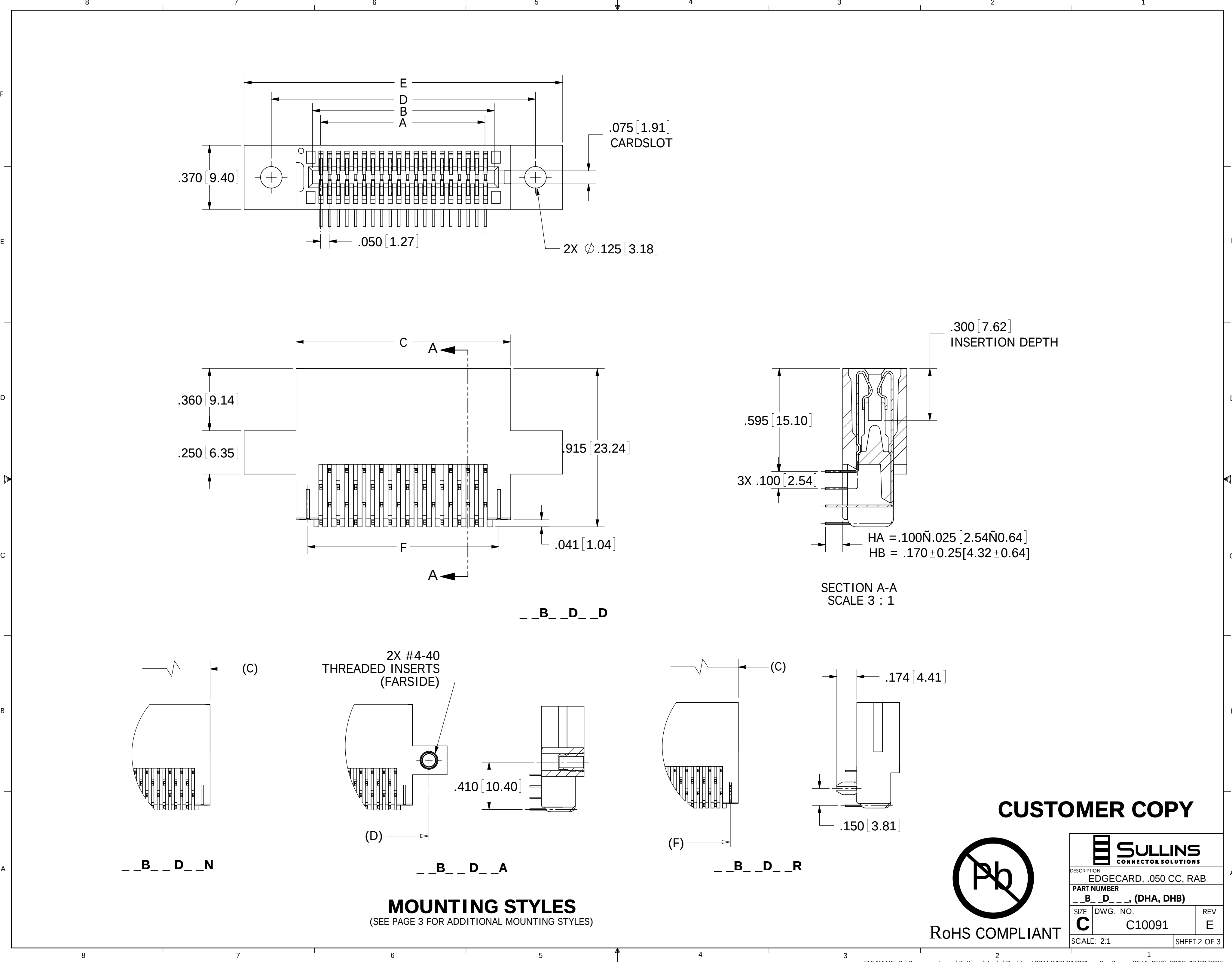
- A. CONNECTOR IDENTIFICATION: THE PART SHALL BE MARKED WITH A LOT CODE AS A MINIMUM. IF SPACE PERMITS ALSO MARK PART WITH SULLINS WEBSITE, AND PART NUMBER.
- B. DURABILITY: 500 CYCLES MINIMUM.
- C. BOARD THICKNESS ACCOMMODATED: .062 ±.008"
- D. BOARD INSERTION FORCE: 16 OZ MAX PER CONTACT PAIR WHEN USING A .062" TEST BLADE. INTERNAL INSPECTION TO BE PER SULLIN'S WORK INSTRUCTION W17.3-01.
- E. BOARD WITHDRAWAL FORCE: 1 OUNCE MINIMUM PER CONTACT PAIR USING .062" PCB.



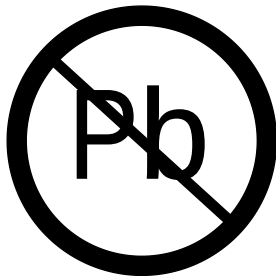
RoHS COMPLIANT

CUSTOMER COPY

|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                 |          |          |                                                                                       |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------------------------------------------------------------------------------------|-------------------------|
| UNLESS OTHERWISE SPECIFIED:<br><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<br><br><br>INTERPRET DIMENSIONS AND GEOMETRIC<br>TOLERANCING<br>PER: ANSI Y14.5M-1994 |                                                                                                                                                                                                                                                                 | DATE     | NAME     |  |                         |
|                                                                                                                                                                                                                                                                                                                                 | DRAWN                                                                                                                                                                                                                                                           | 04/12/06 | MNH      |                                                                                       |                         |
|                                                                                                                                                                                                                                                                                                                                 | 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             |
|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                            |          |          |                                                                                       | EDGE CARD, .050 CC, RAB |
| PART NUMBER                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 |          |          |                                                                                       |                         |
| _ _ B _ _ D _ _ , (DHA, DHB)                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                 |          |          |                                                                                       |                         |
|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                 | SIZE     | DWG. NO. | REV                                                                                   |                         |
|                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                 | C        | C10091   | E                                                                                     |                         |
| SCALE: 3:1                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |          |          | SHEET 1 OF 3                                                                          |                         |



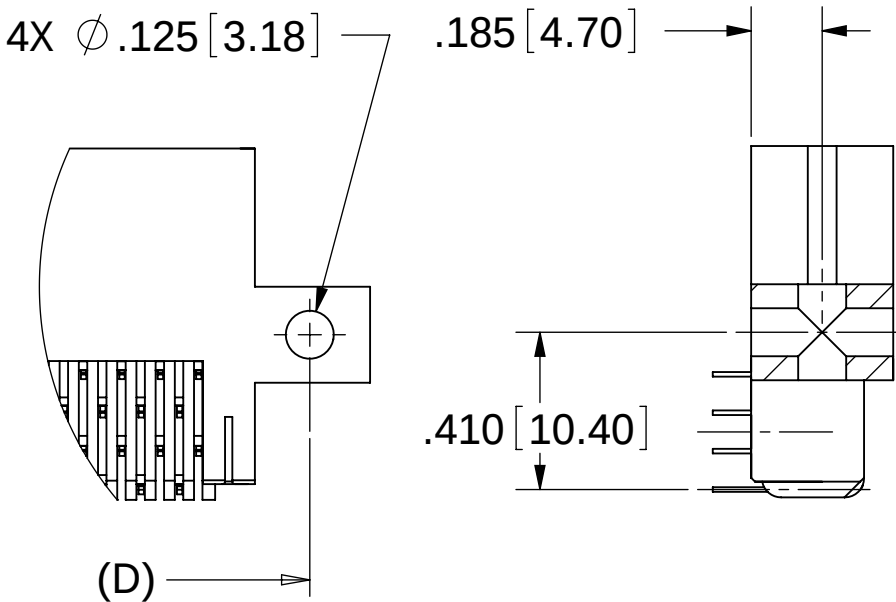
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RoHS COMPLIANT

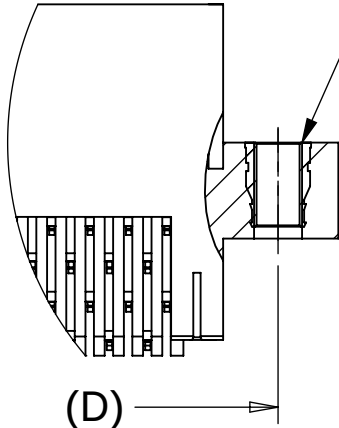
|                                        |                    |              |
|----------------------------------------|--------------------|--------------|
| SULLINS<br>CONNECTOR SOLUTIONS         |                    |              |
| DESCRIPTION<br>EDGE CARD, .050 CC, RAB |                    |              |
| PART NUMBER<br>__B__D__, (DHA, DHB)    |                    |              |
| SIZE<br>C                              | DWG. NO.<br>C10091 | REV<br>E     |
| SCALE: 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 |



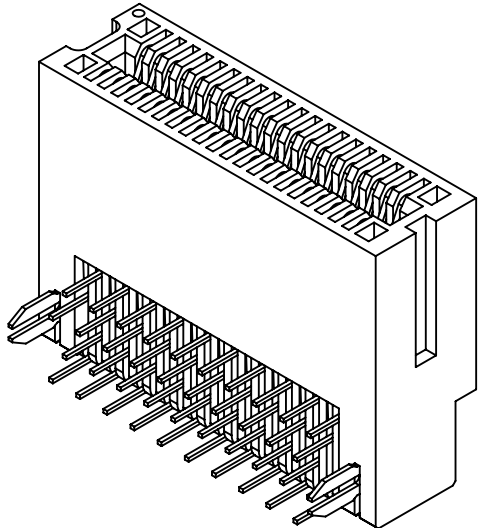
\_\_B\_\_D\_\_S

2X # 4-40  
THREADED INSERTS

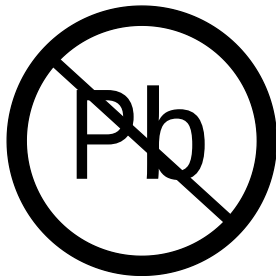


\_\_B\_\_D\_\_T

MOUNTING STYLES



CUSTOMER COPY



RoHS COMPLIANT

|                                        |                    |              |
|----------------------------------------|--------------------|--------------|
|                                        |                    |              |
| 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: 4:1                             |                    | SHEET 3 OF 3 |