

| TABLE OF DIMENSIONS |                  |                   |                      |       |              |               |                |               |
|---------------------|------------------|-------------------|----------------------|-------|--------------|---------------|----------------|---------------|
| BURNDY CATALOG NO.  | CONTACTS PER ROW | TOTAL NO CONTACTS | NO. OF CONTACT PAIRS |       | D            | E             | H ±.008 [0.20] | L             |
|                     |                  |                   | BAY A                | BAY B |              |               |                |               |
| CEE2X60S-V-Z48W     | 60               | 120               | 11                   | 49    | .590 [14.99] | 2.490 [63.25] | 3.340 [84.84]  | 2.550 [64.77] |

| TABLE I - TERMINATION LENGTHS |  |   |
|-------------------------------|--|---|
| NO.                           | S ±.010 [0.25]<br>(SOLDER TAIL LENGTH) | J ±.010 [0.25]<br>(MOUNTING POSTS LENGTH) |
| 3                             | .100 [2.54]                            | .180 [4.57]                               |
| 5                             | .125 [3.18]                            | .205 [5.21]                               |
| 9                             | .140 [3.56]                            | .220 [5.59]                               |

NOTES UNLESS OTHERWISE SPECIFIED.

- INTERPRET THIS DRAWING IN ACCORDANCE WITH ANSI Y14.5M-1982.
- SEE SHEETS 5 AND 6 FOR RECOMMENDED MATING DAUGHTERBOARD CARD EDGE LAYOUTS AND MOTHERBOARD FOOTPRINTS.

MATING DAUGHTERBOARD MATERIAL:  
P.C. BOARD: FR-4 WITH 1 OZ [28.35 GRAMS] MIN COPPER PADS

PAD PLATING: 30 MICRONS [0.76 MICRONS] MIN GOLD PER MIL-9-45204, TYPE 1 CLASS 1, GRADE C OVER 100 MICRONS [2.54 MICRONS] MIN NICKEL PER QQ-N-290.

NOT INCLUDED AS PART OF THE PCI-SIG SPECIFICATION.  
MOUNTING HOLE DIMENSION,  $\phi 0.96_{-0.01}^{+0.02}$  [2.44 -0.03], CAN BE  $\phi 0.96_{+0.003}^{+0.005}$  [2.44 +0.08] FOR "SC" RETENTION CLIP VERSIONS.

MATERIALS:

BODY - HIGH TEMPERATURE THERMOPLASTIC, RATED UL94V-0 AVAILABLE IN WHITE OR BROWN, REFER TO CATALOG NO. DESCRIPTION FOR FURTHER DETAILS.

CONTACTS - COPPER ALLOY

FINISH:

CONTACTS - Z48 PLATING GOLD FLASH OVER 25 MICRONS [0.63 MICRONS] MIN PALLADIUM-NICKEL OVER 50 MICRONS [1.27 MICRONS] MIN NICKEL UNDERPLATE IN CRITICAL CONTACT AREA AND 100 MICRONS [2.54 MICRONS] SOLDER OVER NICKEL UNDERPLATE ON SOLDER TAILS.

PERFORMANCE CHARACTERISTICS:

CONTACT RESISTANCE (LOW SIGNAL LEVEL) - MIL-STD-1344, METHOD 3002-1, 30 MILLIOHMS MAX INITIAL, 10 MILLIOHMS MAX INCREASE THROUGH TESTING.

CURRENT RATING - 1 AMPERE, 86°F [30°C] RISE ABOVE AMBIENT.

CONTACT NORMAL FORCE - 1.76 OZ FORCE [0.49 NEWTONS] MINIMUM END OF LIFE.

DURABILITY - 100 MATING CYCLES WITHOUT PHYSICAL DAMAGE, OR EXCEEDING LOW LEVEL CONTACT RESISTANCE REQUIREMENT WHEN MATED WITH RECOMMENDED CARD EDGE.

INSULATION RESISTANCE - MIL-STD-202, METHOD 302, CONDITION B, 1000 MEGAOHMS MINIMUM.

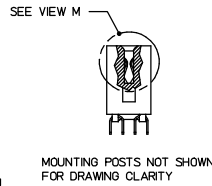
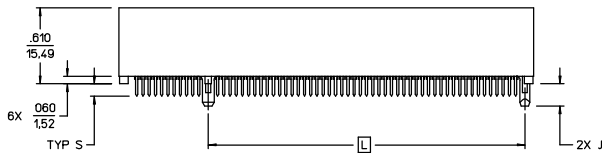
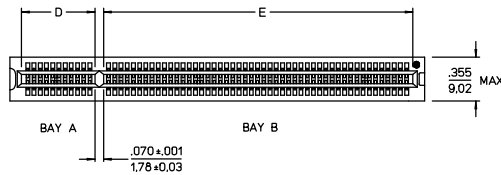
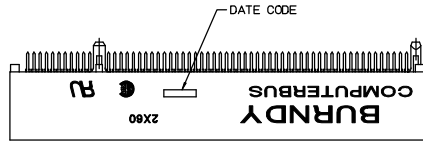
OPERATING TEMPERATURE -40°F TO 221°F [-40°C TO 105°C].

THERMAL SHOCK - MIL-STD-1344, METHOD 1003.1, -67°F TO 185°F [-55°C TO 85°C] 5 CYCLES.

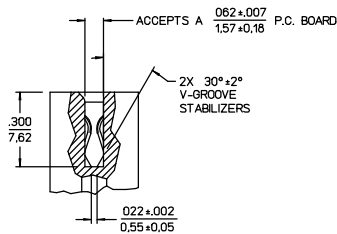
CAPACITANCE - 2 PICO FARADS MAXIMUM AT 1 MEGAHERTZ.

MATING FORCE - MIL-STD-1344, METHOD 2013.1, 6 OZ [1.67 NEWTONS] MAX AVERAGE PER OPPOSING PAIR USING STEEL GAUGE PER MIL-STD-C-21097 EXCEPT .062 [1.57] THICK WITH 20° LEAD-IN CHAMFER ANGLE.

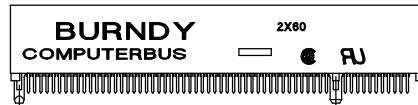
COMPATIBLE WITH WAVE SOLDERING AND VAPOR PHASE SOLDERING TECHNIQUES.



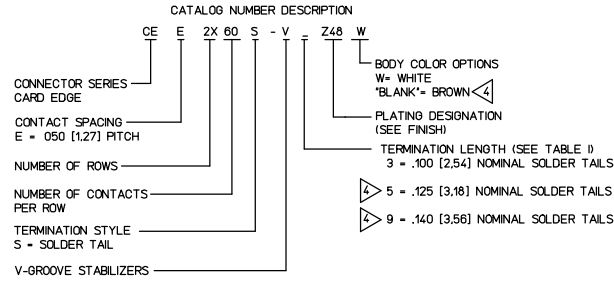
CEE2X60S-V3Z48W CONNECTOR SHOWN IN 33V/32-BIT APPLICATION POSITION



VIEW M SCALE 4:1



SAME CEE2X60S-V3Z48W CONNECTOR SHOWN IN 5V/32-BIT APPLICATION POSITION



|     |   |     |      |          |
|-----|---|-----|------|----------|
| 1   | SHTS 1-5: NO CHANGE SHT 6: CORRECTED VIEW FOR RECOMMENDED MOTHERBOARD FOOTPRINT FOR 5V/32-BIT CONNECTOR (ECN3042) | DDF | RCW  | 06-13-94 |
| REV | REVISION DESCRIPTION  | BY  | CHKD | DATE     |

REFERENCE: SE95202  
SUPERSEDES SKME28574-1

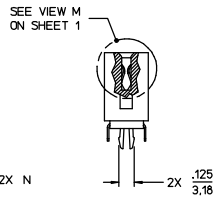
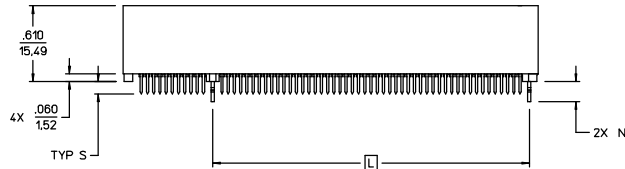
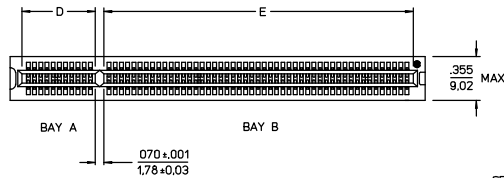
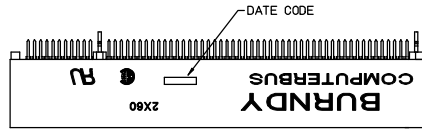
| COMPUTERBUS™ CONNECTOR             |          |           |        |                   |
|------------------------------------|----------|-----------|--------|-------------------|
| CAT NO CEE2X_S-V-Z48W (SEE TABLE)  |          |           |        |                   |
| LINEAR MEASURE:                    | INCH     | INCH (mm) | DRWN   | DDF 05-28-94      |
| THIRD ANGLE PROJECTION             | NO 09922 | DN 901    | PC 822 | CHKD PJB 05-31-94 |
| © BURNDY CORPORATION 1994          |          |           |        |                   |
| <b>BURNDY</b>                      |          |           |        |                   |
| <b>FCI</b>                         |          |           |        |                   |
| FRAMATOME CONNECTORS INTERNATIONAL |          |           |        |                   |
| DRAWING SCALE 2:1                  |          |           |        | DRWNO             |
| DRAWING NO                         |          |           |        | REV               |
| BRSE96060                          |          |           |        | 1                 |
| SHEET 1 OF 6                       |          |           |        |                   |

| - TOLERANCES -                 |               |
|--------------------------------|---------------|
| UNLESS OTHERWISE SPECIFIED     |               |
| NO OF DECIMAL PLACES IN INCHES | INCH (mm)     |
| ONE PLACE                      | ±.1 (±2.5)    |
| TWO PLACES                     | ±.02 (±0.5)   |
| THREE PLACES                   | ±.005 (±0.13) |
| ANGLES ±°                      |               |

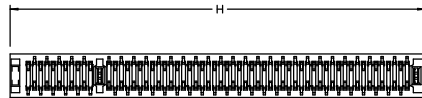
| TABLE OF DIMENSIONS |                  |                   |                      |       |              |               |                |               |
|---------------------|------------------|-------------------|----------------------|-------|--------------|---------------|----------------|---------------|
| BURNDY CATALOG NO.  | CONTACTS PER ROW | TOTAL NO CONTACTS | NO. OF CONTACT PAIRS |       | D            | E             | H ±.008 [0,20] | L             |
|                     |                  |                   | BAY A                | BAY B |              |               |                |               |
| CEE2X60SC-V-Z48W    | 60               | 120               | 11                   | 49    | .590 [14,99] | 2,490 [63,25] | 3,340 [84,84]  | 2,550 [64,77] |

| TABLE II - TERMINATION LENGTHS |  |   |   |
|--------------------------------|--|---|---|
| NO.                            | S ±.010 [0,25]<br>(SOLDER TAIL LENGTH) | N ±.010 [0,25]<br>(RETENTION CLIP LENGTH) | APPLICABLE MOTHERBOARD THICKNESS ±.007 [0,18] |
| 3                              | .100 [2,54]                            | .155 [3,94]                               | .062 [1,57]                                   |
| 9                              | .140 [3,56]                            | .186 [4,72]                               | .093 [2,36]                                   |

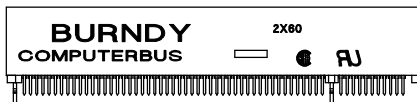
NOTES: SEE SHEET 1.



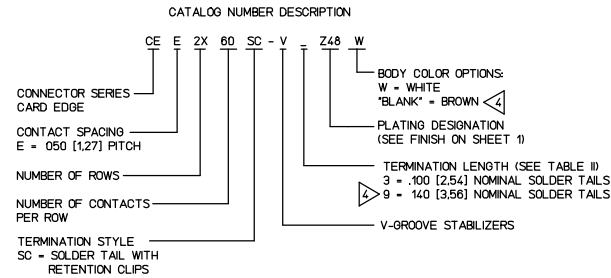
INNER CONTACT TAILS NOT SHOWN FOR DRAWING CLARITY



CEE2X60SC-V3Z48W CONNECTOR SHOWN IN 33V/32-BIT APPLICATION POSITION



SAME CEE2X60SC-V3Z48W CONNECTOR SHOWN IN 5V/32-BIT APPLICATION POSITION



|     |                                  |    |      |      |
|-----|----------------------------------|----|------|------|
| REV | ALL REVISIONS RECORDED ON SHIT 1 | BY | CHKD | DATE |
|-----|----------------------------------|----|------|------|

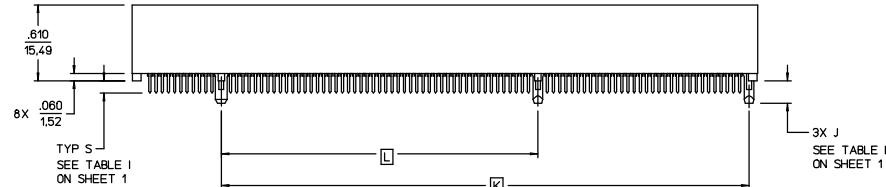
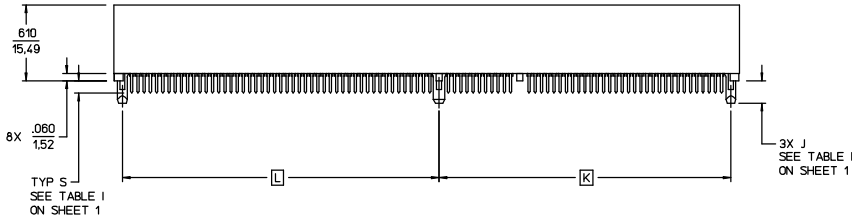
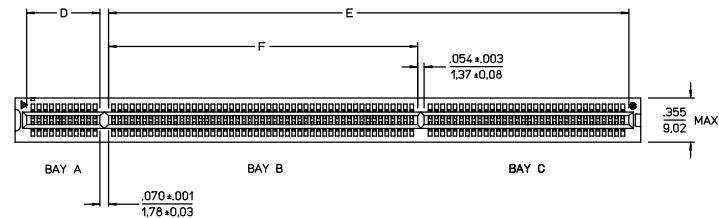
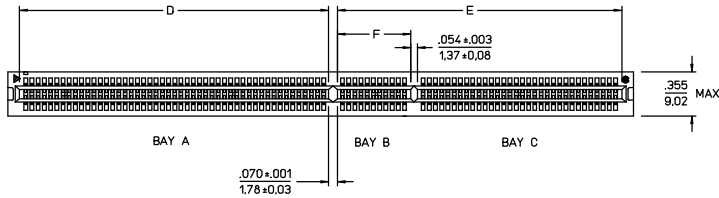
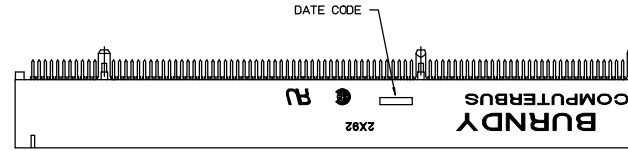
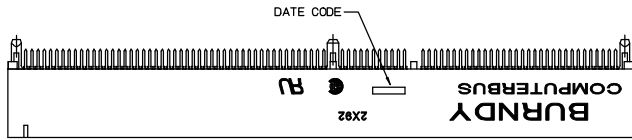
| COMPUTERBUS™ CONNECTOR  |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
|---|---------|----------|--|-----|------|-----|----------|------|-----|----------|------|----|----------|-----|----|----------|----|----|----------|
| CAT NO CEE2X__S-V-Z48W (SEE TABLE)  |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| DWG RELEASED TO CENTRAL FILE 06-03-94   |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| CAGE NO 09922   | DON 901 | PC 822   |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| © BURNDY CORPORATION 1994   |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| <table border="0"> <tr> <td>DRWN</td> <td>DDF</td> <td>05-28-94</td> </tr> <tr> <td>CHKD</td> <td>PJB</td> <td>05-31-94</td> </tr> <tr> <td>DSGN</td> <td>JC</td> <td>06-03-94</td> </tr> <tr> <td>MKT</td> <td>KM</td> <td>06-03-94</td> </tr> <tr> <td>QC</td> <td>JB</td> <td>05-31-94</td> </tr> </table> |         |          |  |     | DRWN | DDF | 05-28-94 | CHKD | PJB | 05-31-94 | DSGN | JC | 06-03-94 | MKT | KM | 06-03-94 | QC | JB | 05-31-94 |
| DRWN  | DDF     | 05-28-94 |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| CHKD  | PJB     | 05-31-94 |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| DSGN  | JC      | 06-03-94 |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| MKT   | KM      | 06-03-94 |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| QC  | JB      | 05-31-94 |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| DRAWING SCALE 2:1   |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| DRAWING NO  |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| BRSE96060   |         |          |  | REV |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
|   |         |          |  | 1   |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |
| SHEET 2 OF 6  |         |          |  |     |      |     |          |      |     |          |      |    |          |     |    |          |    |    |          |

| LINEAR MEASURE:                 | INCH  | INCH (mm) |
|---------------------------------|-------|-----------|
| NO. OF DECIMAL PLACES IN INCHES | ±.1   | ±2,5      |
| ONE PLACE                       | ±.1   | ±2,5      |
| TWO PLACES                      | ±.02  | ±0,5      |
| THREE PLACES                    | ±.005 | ±0,13     |
| ANGLES ±°                       |       |           |

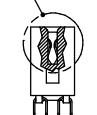


| BURNDY CATALOG NO. | CONTACTS PER ROW | TOTAL NO CONTACTS | NO. OF CONTACT PAIRS |       |       | D             | E             | F            | H ±.008 [0,20] | K             | L             |
|--------------------|------------------|-------------------|----------------------|-------|-------|---------------|---------------|--------------|----------------|---------------|---------------|
|                    |                  |                   | BAY A                | BAY B | BAY C |               |               |              |                |               |               |
|                    |                  |                   | CEE2X92S-V_3Z48W     | 92    | 184   |               |               |              |                |               |               |
| CEE2X92S-V_5Z48W   | 92               | 184               | 49                   | 11    | 32    | 2.490 [63,25] | 2.290 [58,17] | .590 [14,99] | 5.040 [128,02] | 2.350 [59,69] | 2.550 [64,77] |

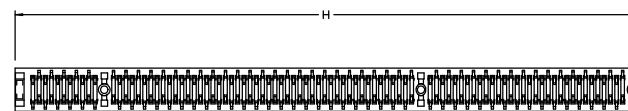
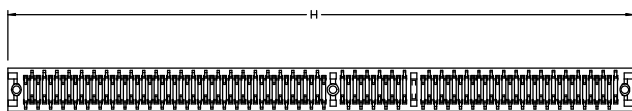
NOTES: SEE SHEET 1



SEE VIEW M ON SHEET 1

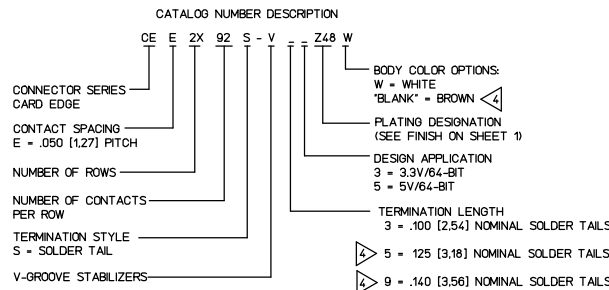


MOUNTING POSTS NOT SHOWN FOR DRAWING CLARITY



CEE2X92S-V35Z48W CONNECTOR SHOWN FOR 5V/64-BIT APPLICATION

CEE2X92S-V33Z48W CONNECTOR SHOWN FOR 3.3V/64-BIT APPLICATION



|     |                                  |    |      |      |
|-----|----------------------------------|----|------|------|
| REV | ALL REVISIONS RECORDED ON SHIT 1 | BY | CHKD | DATE |
|-----|----------------------------------|----|------|------|

COMPUTERBUS™ CONNECTOR

CAT NO CEE2X\_S-V\_Z48W (SEE TABLE)

DWG RELEASED TO CENTRAL FILE 06-03-94

CAGE NO 09922 DON 901 PC 822

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**BURNDY**

**FCI**

FRAMATOME CONNECTORS INTERNATIONAL

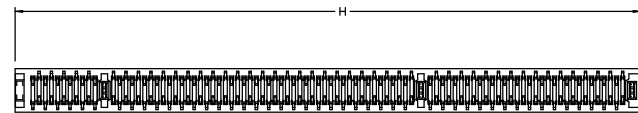
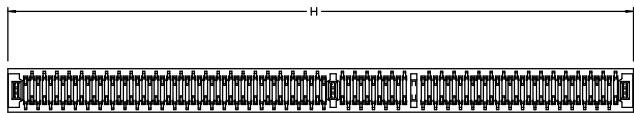
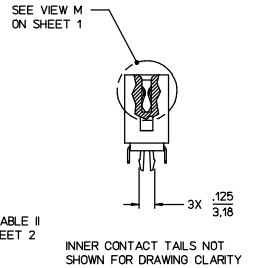
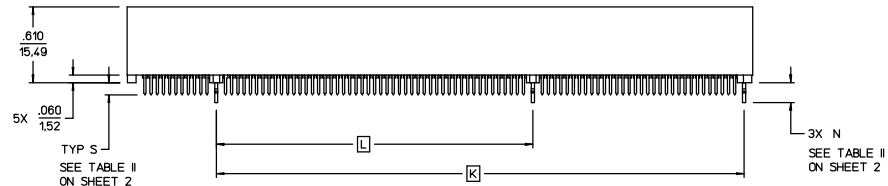
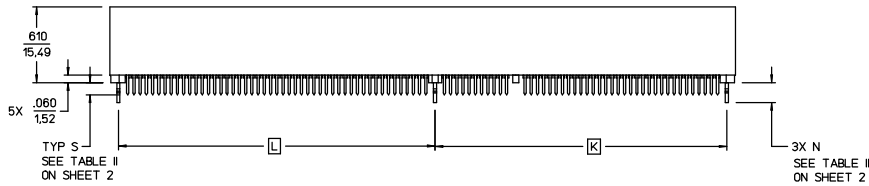
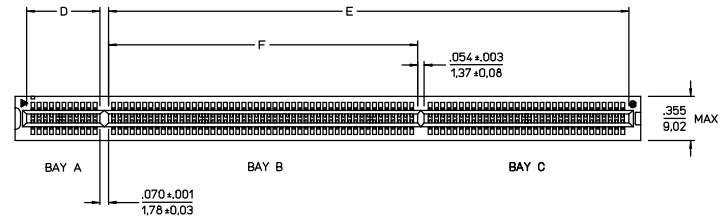
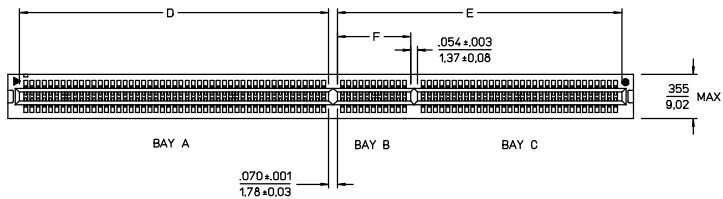
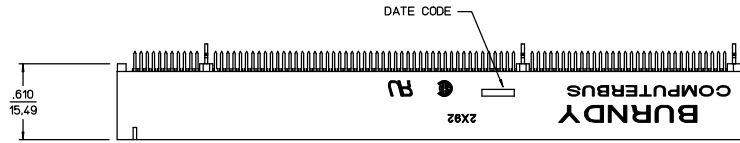
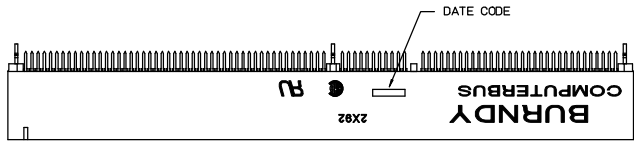
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|-------------------|-----|----------|
| DRWN              | DDF | 05-28-94 |
| CHKD              | PJB | 05-31-94 |
| DSGN              | JC  | 06-03-94 |
| MKT               | KM  | 06-03-94 |
| QC                | JB  | 05-31-94 |
| DRAWING SCALE 2:1 |     |          |
| DRAWING NO        |     |          |
| BRSE96060         | 1   |          |

SHEET 3 OF 6

| LINEAR MEASURE:                | INCH          | INCH (mm) |
|--------------------------------|---------------|-----------|
| THIRD ANGLE PROJECTION         |               |           |
| - TOLERANCES -                 |               |           |
| UNLESS OTHERWISE SPECIFIED     |               |           |
| NO OF DECIMAL PLACES IN INCHES | INCH (mm)     |           |
| ONE PLACE                      | ±.1 (±2.5)    |           |
| TWO PLACES                     | ±.02 (±0.5)   |           |
| THREE PLACES                   | ±.005 (±0.13) |           |
| ANGLES ±°                      |               |           |

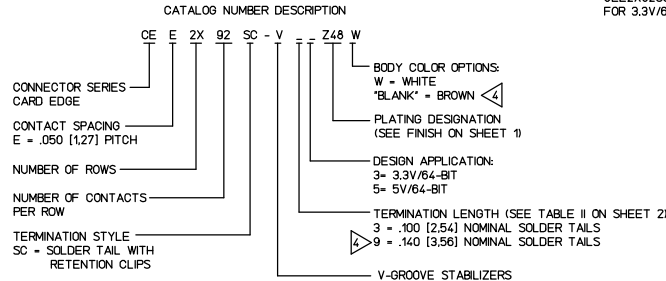
| BURNDY CATALOG NO. | CONTACTS PER ROW | TOTAL NO CONTACTS | NO. OF CONTACT PAIRS |       |       | D             | E             | F            | H ±.008 [0,20] | K             | L             |
|--------------------|------------------|-------------------|----------------------|-------|-------|---------------|---------------|--------------|----------------|---------------|---------------|
|                    |                  |                   | BAY A                | BAY B | BAY C |               |               |              |                |               |               |
|                    |                  |                   | CEE2X92SC-V_3Z48W    | 92    | 184   |               |               |              |                |               |               |
| CEE2X92SC-V_5Z48W  | 92               | 184               | 49                   | 11    | 32    | 2.490 [63,25] | 2.290 [58,17] | .590 [14,99] | 5.040 [128,02] | 2.350 [59,69] | 2.550 [64,77] |

NOTES: SEE SHEET 1



CEE2X92SC-V35Z48W CONNECTOR SHOWN FOR 5V/64-BIT APPLICATION

CEE2X92SC-V53Z48W CONNECTOR SHOWN FOR 3.3V/64-BIT APPLICATION



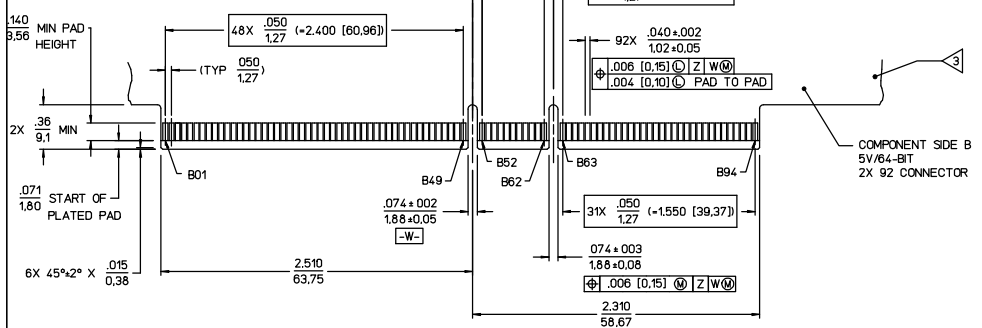
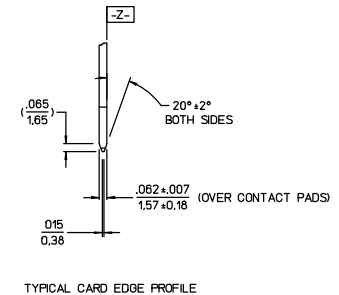
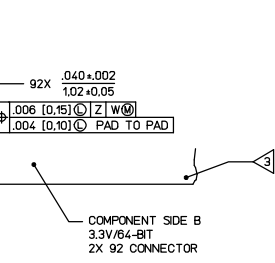
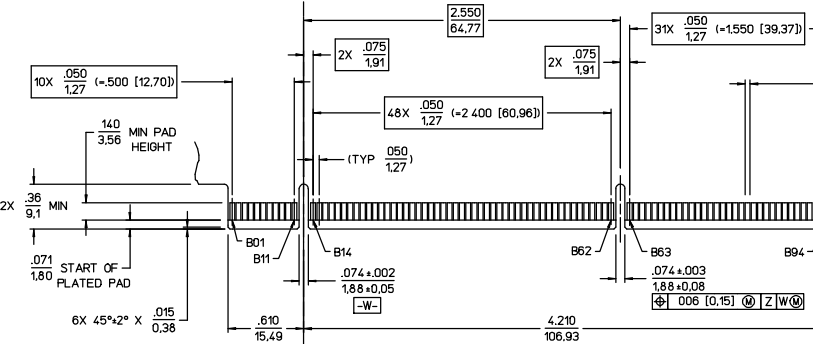
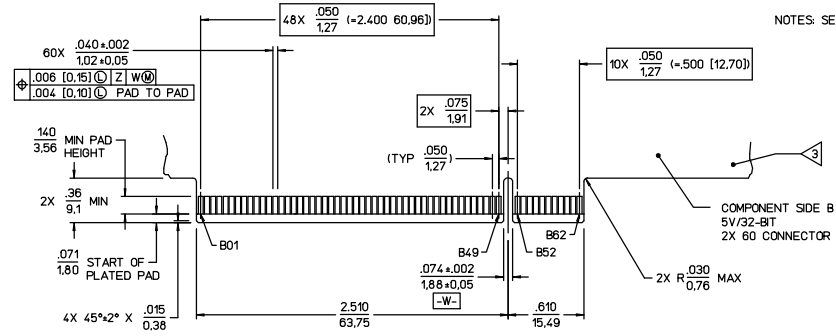
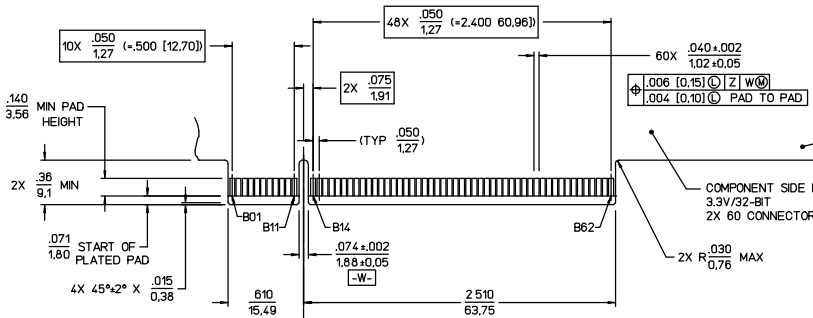
| ALL REVISIONS RECORDED ON SHIT 1 |                      |    |           |
|----------------------------------|----------------------|----|-----------|
| REV                              | REVISION DESCRIPTION | BY | CHKD DATE |

| COMPUTERBUS™ CONNECTOR                |         |          |   |
|---------------------------------------|---------|----------|---|
| CAT NO CEE2X_S-V_Z48W (SEE TABLE)     |         |          |   |
| DWG RELEASED TO CENTRAL FILE 06-03-94 |         |          |   |
| CAGE NO 09922                         | DON 901 | PC 822   |   |
| © BURNDY CORPORATION 1994             |         |          |   |
| DRWN                                  | DDF     | 05-26-94 |   |
| CHKD                                  | PJB     | 05-31-94 |   |
| DSGN                                  | JC      | 06-03-94 |   |
| MKT                                   | KM      | 06-03-94 |   |
| DC                                    | JB      | 05-31-94 |   |
| DRAWING SCALE 2:1                     |         |          |   |
| DRAWING NO                            |         |          |   |
| BRSE96060                             |         |          | 1 |
| SHEET 4 OF 6                          |         |          |   |

| LINEAR MEASURE:                | INCH          | INCH (mm) |
|--------------------------------|---------------|-----------|
|                                |               |           |
| THIRD ANGLE PROJECTION         |               |           |
| UNLESS OTHERWISE SPECIFIED     |               |           |
| NO OF DECIMAL PLACES IN INCHES | INCH (mm)     |           |
| ONE PLACE                      | ±.1 (±2,5)    |           |
| TWO PLACES                     | ±.02 (±0,5)   |           |
| THREE PLACES                   | ±.005 (±0,13) |           |
| ANGLES ±°                      |               |           |



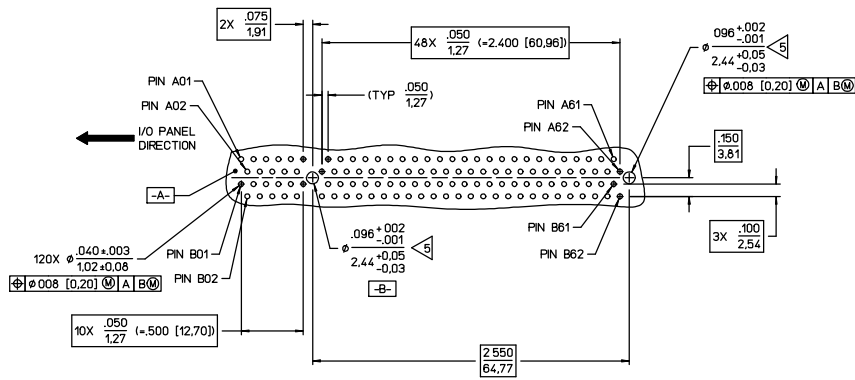
NOTES: SEE SHEET 1.



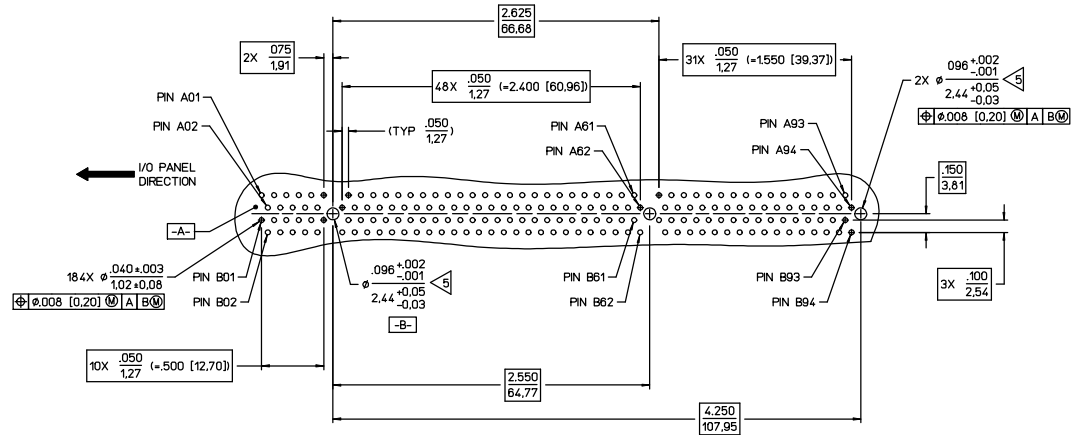
|  |                                 |                   |      |      |
|--|---------------------------------|-------------------|------|------|
| REV                                      | ALL REVISIONS RECORDED ON SHT 1 | BY                | CHKD | DATE |
| RECOMMENDED MATING DAUGHTERBOARD LAYOUTS |                                 |                   |      |      |
| CAT NO CEE2X__S-V_Z48W (SEE TABLE)       |                                 |                   |      |      |
| DWG RELEASED TO CENTRAL FILE 06-03-94    |                                 | DRWN DDF 05-26-94 |      |      |
| CAGE NO 09922   DON 901   PC 822         |                                 | CHKD PJB 05-31-94 |      |      |
| © BURNDY CORPORATION 1994                |                                 | DSSN JC 06-03-94  |      |      |
|  |                                 | V MKT KM 06-03-94 |      |      |
|  |                                 | OC JB 05-31-94    |      |      |
|  |                                 | DRAWING SCALE 2:1 |      |      |
|  |                                 | DRAWING NO        |      | REV  |
|  |                                 | BRSE96060         |      | 1    |
|  |                                 | SHEET 5 OF 6      |      |      |

|                                |               |           |
|--------------------------------|---------------|-----------|
| LINEAR MEASURE:                | INCH          | INCH (mm) |
|                                | mm            |           |
| THIRD ANGLE PROJECTION         |               |           |
| - TOLERANCES -                 |               |           |
| UNLESS OTHERWISE SPECIFIED     |               |           |
| NO OF DECIMAL PLACES IN INCHES | INCH (mm)     |           |
| ONE PLACE                      | ±.1 (±2.5)    |           |
| TWO PLACES                     | ±.02 (±0.5)   |           |
| THREE PLACES                   | ±.005 (±0.13) |           |
| ANGLES ±°                      |               |           |

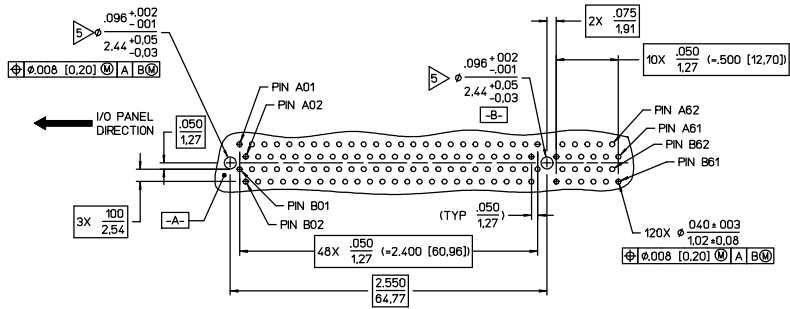




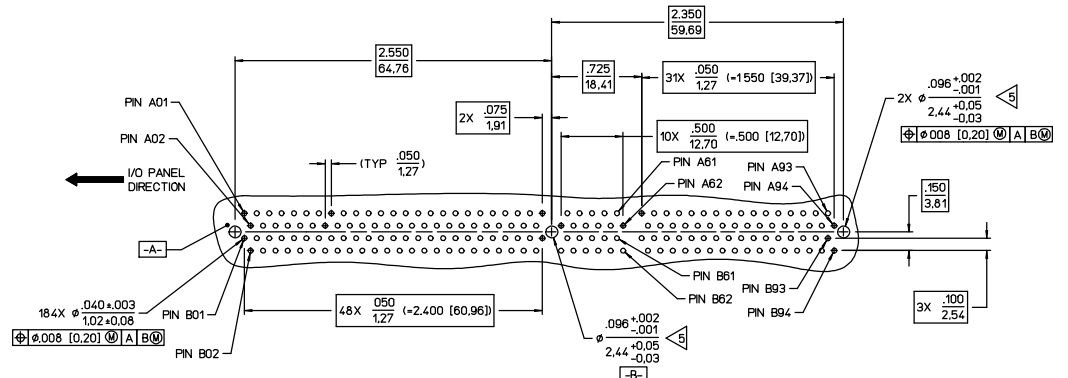
RECOMMENDED MOTHERBOARD FOOTPRINT FOR 3.3V/32-BIT 2X 60 CONNECTOR (CONNECTOR SIDE)



RECOMMENDED MOTHERBOARD FOOTPRINT FOR 3.3V/64-BIT (CONNECTOR SIDE)



RECOMMENDED MOTHERBOARD FOOTPRINT FOR 5V/32-BIT CONNECTOR (CONNECTOR SIDE)



RECOMMENDED MOTHERBOARD FOOTPRINT FOR 5V/64-BIT 2X92 CONNECTOR (CONNECTOR SIDE)

|     |                                  |    |      |      |
|-----|----------------------------------|----|------|------|
| REV | ALL REVISIONS RECORDED ON SHIT 1 | BY | CHKD | DATE |
|-----|----------------------------------|----|------|------|

| RECOMMENDED MOTHERBOARD FOOTPRINTS    |       |     |          |  |
|---------------------------------------|-------|-----|----------|--|
| CAT NO CEE2X...S-V_Z48W (SEE TABLE)   |       |     |          |  |
| DWG RELEASED TO CENTRAL FILE 06-03-94 | DRWN  | DDF | 05-26-94 |  |
| CAGE NO 09922   DON 901   PC 822      | CHKD  | PJB | 05-31-94 |  |
| © BURNDY CORPORATION 1994             |       |     |          |  |
|                                       | DISGN | JC  | 06-03-94 |  |
|                                       | WKT   | KM  | 06-03-94 |  |
|                                       | DC    | B   | 05-31-94 |  |
| DRAWING SCALE 2:1                     |       |     |          |  |
| DRAWING NO                            |       |     |          |  |
| BRSE96060 1                           |       |     |          |  |
| SHEET 6 OF 6                          |       |     |          |  |

|                                |               |           |
|--------------------------------|---------------|-----------|
| LINEAR MEASURE:                | INCH          | INCH (mm) |
|                                | mm            |           |
| THIRD ANGLE PROJECTION         |               |           |
|                                |               |           |
| - TOLERANCES -                 |               |           |
| UNLESS OTHERWISE SPECIFIED     |               |           |
| NO OF DECIMAL PLACES IN INCHES | INCH (mm)     |           |
| ONE PLACE                      | ±.1 (±2.5)    |           |
| TWO PLACES                     | ±.02 (±0.5)   |           |
| THREE PLACES                   | ±.005 (±0.13) |           |
| ANGLES ±1°                     |               |           |

