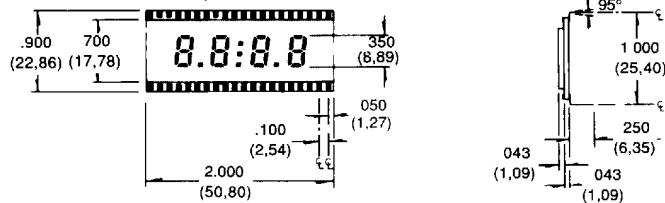
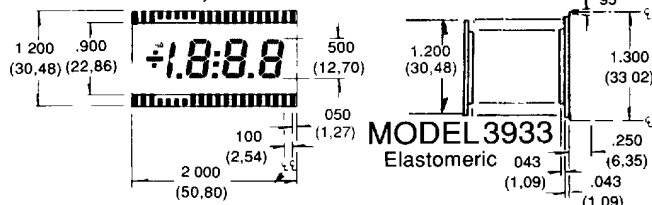
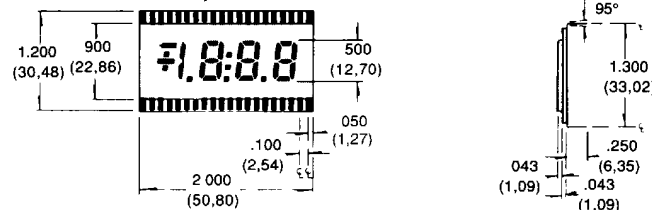
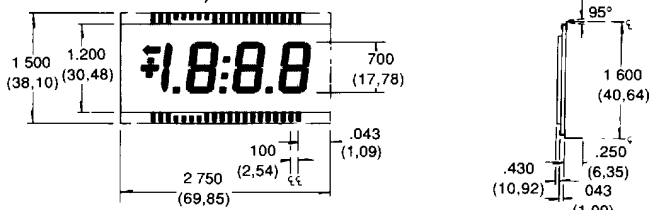
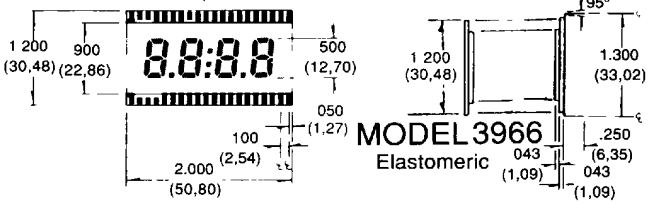
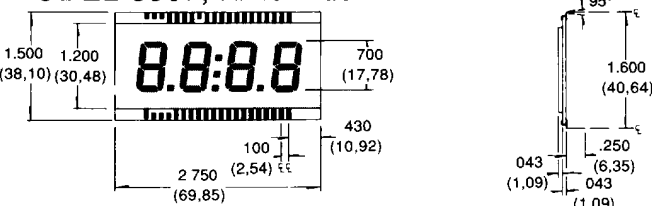
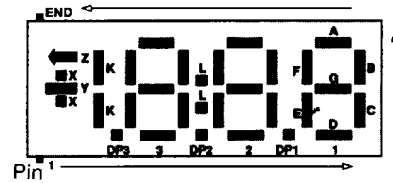
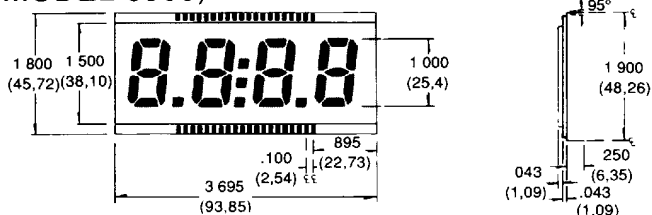


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**Standish LCD****PIN-OUT ASSIGNMENT**

Pin-out sequences begin with the first pin located in the lower left corner of the LCD and continue to the right, with the last pin number in the top left corner. Digits are numbered from right to left. BP(COM) = Backplane (common) Electrode NC = No Contact

**MODEL 3900, Pin Terminals****MODEL 3901, Pin Terminals****MODEL 3902, Pin Terminals****MODEL 3903, Pin Terminals****MODEL 3906, Pin Terminals****MODEL 3907, Pin Terminals****MODEL 3908, Pin Terminals**

| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment  |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1       | BP (COM) | 9       | E3      | 17      | E1      | 25      | A2      | 33      | NC       |
| 2       | NC       | 10      | D3      | 18      | D1      | 26      | F2      | 34      | B4       |
| 3       | NC       | 11      | C3      | 19      | C1      | 27      | G2      | 35      | A4       |
| 4       | NC       | 12      | DP2     | 20      | B1      | 28      | L       | 36      | F4       |
| 5       | E4       | 13      | E2      | 21      | A1      | 29      | B3      | 37      | G4       |
| 6       | D4       | 14      | D2      | 22      | F1      | 30      | A3      | 38      | NC       |
| 7       | C4       | 15      | C2      | 23      | G1      | 31      | F3      | 39      | NC       |
| 8       | DP3      | 16      | DP1     | 24      | B2      | 32      | G3      | 40      | BP (COM) |

ELASTOMERIC VERSION = MODEL 3950

| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment  |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1       | BP (COM) | 9       | E3      | 17      | E1      | 25      | A2      | 33      | NC       |
| 2       | Y        | 10      | D3      | 18      | D1      | 26      | F2      | 34      | NC       |
| 3       | K        | 11      | C3      | 19      | C1      | 27      | G2      | 35      | NC       |
| 4       | NC       | 12      | DP2     | 20      | B1      | 28      | L       | 36      | NC       |
| 5       | NC       | 13      | E2      | 21      | A1      | 29      | B3      | 37      | NC       |
| 6       | NC       | 14      | D2      | 22      | F1      | 30      | A3      | 38      | Z        |
| 7       | NC       | 15      | C2      | 23      | G1      | 31      | F3      | 39      | X        |
| 8       | DP3      | 16      | DP1     | 24      | B2      | 32      | G3      | 40      | BP (COM) |

| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment  |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1       | BP (COM) | 9       | E3      | 17      | E1      | 25      | A1      | 33      | NC       |
| 2       | Y        | 10      | D3      | 18      | D1      | 26      | F1      | 34      | NC       |
| 3       | K        | 11      | C3      | 19      | C1      | 27      | G1      | 35      | NC       |
| 4       | NC       | 12      | DP2     | 20      | B1      | 28      | L       | 36      | NC       |
| 5       | NC       | 13      | E2      | 21      | A1      | 29      | B3      | 37      | NC       |
| 6       | NC       | 14      | D2      | 22      | F1      | 30      | A3      | 38      | Z        |
| 7       | NC       | 15      | C2      | 23      | G1      | 31      | F3      | 39      | X        |
| 8       | DP3      | 16      | DP1     | 24      | B1      | 32      | G3      | 40      | BP (COM) |

ELASTOMERIC VERSION = MODEL 3962

| Pin No. | Segment    | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment   |
|---------|------------|---------|---------|---------|---------|---------|---------|---------|-----------|
| 1       | Backplane  | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | N/C       |
| 2       | Minus      | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | N/C       |
| 3       | Half Digit | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | N/C       |
| 4       | N/C        | 12      | DP 2    | 20      | 1B      | 28      | Colon   | 36      | N/C       |
| 5       | N/C        | 13      | 2E      | 21      | 1A      | 29      | 3B      | 37      | N/C       |
| 6       | N/C        | 14      | 2D      | 22      | 1F      | 30      | 3A      | 38      | Arrow     |
| 7       | N/C        | 15      | 2C      | 23      | 1G      | 31      | 3F      | 39      | Plus      |
| 8       | DP 3       | 16      | DP 1    | 24      | 2B      | 32      | 3G      | 40      | Backplane |

ELASTOMERIC VERSION = MODEL 3953

MODEL 3903 IS ALSO AVAILABLE IN A "LO BAT" VERSION - MODEL 3941

| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment  |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1       | BP (COM) | 9       | E3      | 17      | E1      | 25      | A2      | 33      | NC       |
| 2       | NC       | 10      | D3      | 18      | D1      | 26      | F2      | 34      | B4       |
| 3       | NC       | 11      | C3      | 19      | C1      | 27      | G2      | 35      | A4       |
| 4       | NC       | 12      | DP2     | 20      | B1      | 28      | L       | 36      | F4       |
| 5       | E4       | 13      | E2      | 21      | A1      | 29      | B3      | 37      | G4       |
| 6       | D4       | 14      | D2      | 22      | F1      | 30      | A3      | 38      | NC       |
| 7       | C4       | 15      | C2      | 23      | G1      | 31      | F3      | 39      | NC       |
| 8       | E3       | 16      | DP1     | 24      | B2      | 32      | G3      | 40      | BP (COM) |

| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | Backplane | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | N/C     |
| 2       | N/C       | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | 4B      |
| 3       | N/C       | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | 4A      |
| 4       | N/C       | 12      | DP 2    | 20      | 1B      | 28      | Colon   | 36      | 4F      |
| 5       | 4E        | 13      | 2E      | 21      | 1A      | 29      | 3B      | 37      | 4G      |
| 6       | 4D        | 14      | 2D      | 22      | 1F      | 30      | 3A      | 38      | N/C     |
| 7       | 4C        | 15      | 2C      | 23      | 1G      | 31      | 3F      | 39      | N/C     |
| 8       | DP 3      | 16      | DP 1    | 24      | 2B      | 32      | 3G      | 40      | N/C     |

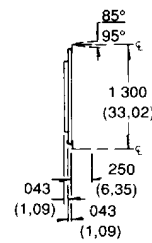
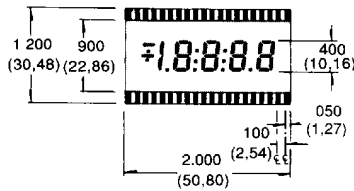
ELASTOMERIC VERSION = MODEL 3967

| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | Backplane | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | N/C     |
| 2       | N/C       | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | 4B      |
| 3       | N/C       | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | 4A      |
| 4       | N/C       | 12      | DP 2    | 20      | 1B      | 28      | Colon   | 36      | 4F      |
| 5       | 4E        | 13      | 2E      | 21      | 1A      | 29      | 3B      | 37      | 4G      |
| 6       | 4D        | 14      | 2D      | 22      | 1F      | 30      | 3A      | 38      | N/C     |
| 7       | 4C        | 15      | 2C      | 23      | 1G      | 31      | 3F      | 39      | N/C     |
| 8       | DP 3      | 16      | DP 1    | 24      | 2B      | 32      | 3G      | 40      | N/C     |

ELASTOMERIC VERSION = MODEL 3968



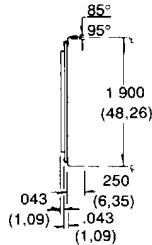
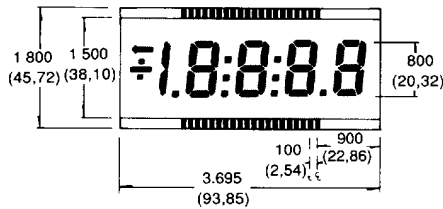
MODEL 3909, Pin Terminals



| Pin No. | Segment    | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment   |
|---------|------------|---------|---------|---------|---------|---------|---------|---------|-----------|
| 1       | Backplane  | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | Colon     |
| 2       | Minus      | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | 4B        |
| 3       | Half Digit | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | 4A        |
| 4       | DP 4       | 12      | DP 2    | 20      | 1B      | 28      | Colon   | 36      | 4F        |
| 5       | 4E         | 13      | 2E      | 21      | 1A      | 29      | 3B      | 37      | 4G        |
| 6       | 4D         | 14      | 2D      | 22      | 1F      | 30      | 3A      | 38      | Arrow     |
| 7       | 4C         | 15      | 2C      | 23      | 1G      | 31      | 3F      | 39      | Plus      |
| 8       | DP 3       | 16      | DP 1    | 24      | 2B      | 32      | 3G      | 40      | Backplane |

ELASTOMERIC VERSION = MODEL 3959

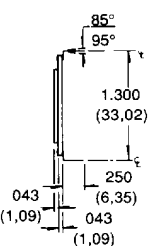
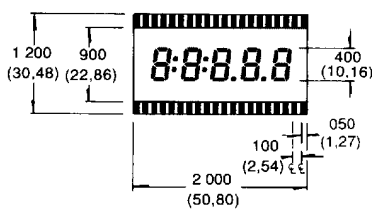
MODEL 3912, Pin Terminals



| Pin No. | Segment    | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment   |
|---------|------------|---------|---------|---------|---------|---------|---------|---------|-----------|
| 1       | Backplane  | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | Colon     |
| 2       | Minus      | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | 4B        |
| 3       | Half Digit | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | 4A        |
| 4       | DP 4       | 12      | DP 2    | 20      | 1B      | 28      | Colon   | 36      | 4F        |
| 5       | 4E         | 13      | 2E      | 21      | 1A      | 29      | 3B      | 37      | 4G        |
| 6       | 4D         | 14      | 2D      | 22      | 1F      | 30      | 3A      | 38      | Arrow     |
| 7       | 4C         | 15      | 2C      | 23      | 1G      | 31      | 3F      | 39      | Plus      |
| 8       | DP 3       | 16      | DP 1    | 24      | 2B      | 32      | 3G      | 40      | Backplane |

ELASTOMERIC VERSION = MODEL 3952

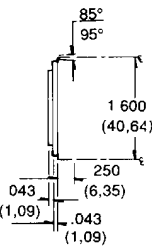
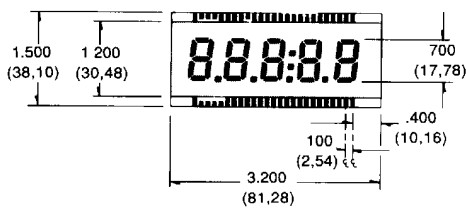
MODEL 3913, Pin Terminals



| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | Backplane | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | 4B      |
| 2       | 5G        | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | 4A      |
| 3       | 5E        | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | 4F      |
| 4       | 5D        | 12      | DP 2    | 20      | 1B      | 28      | 3B      | 36      | 4G      |
| 5       | 5C        | 13      | 2E      | 21      | 1A      | 29      | 3A      | 37      | Colon 2 |
| 6       | 4E        | 14      | 2D      | 22      | 1F      | 30      | 3F      | 38      | 5B      |
| 7       | 4D        | 15      | 2C      | 23      | 1G      | 31      | 3G      | 39      | 5A      |
| 8       | 4C        | 16      | DP 1    | 24      | 2B      | 32      | Colon 1 | 40      | 5F      |

ELASTOMERIC VERSION = MODEL 3963

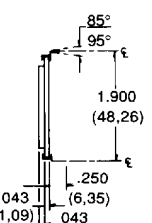
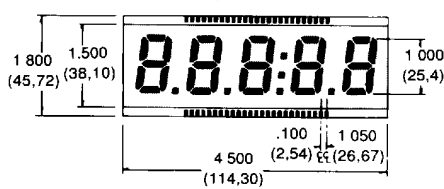
MODEL 3915, Pin Terminals



| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | Backplane | 11      | 2D      | 21      | DP 4    | 31      | 4F      | 41      | 2G      |
| 2       | N/C       | 12      | 2C      | 22      | 5E      | 32      | 4G      | 42      | N/C     |
| 3       | N/C       | 13      | DP 2    | 23      | 5D      | 33      | Colon   | 43      | 1B      |
| 4       | N/C       | 14      | 3E      | 24      | 5C      | 34      | 3B      | 44      | 1A      |
| 5       | N/C       | 15      | 3D      | 25      | 5B      | 35      | 3A      | 45      | 1F      |
| 6       | 1E        | 16      | 3C      | 26      | 5A      | 36      | 3F      | 46      | 1G      |
| 7       | 1D        | 17      | DP 3    | 27      | 5F      | 37      | 3G      | 47      | N/C     |
| 8       | 1C        | 18      | 4E      | 28      | 5G      | 38      | 2B      | 48      | N/C     |
| 9       | DP 1      | 19      | 4D      | 29      | 4B      | 39      | 2A      | 49      | N/C     |
| 10      | 2E        | 20      | 4C      | 30      | 4A      | 40      | 2F      | 50      | N/C     |

ELASTOMERIC VERSION = MODEL 3965

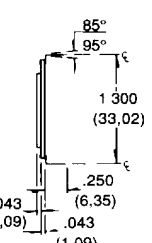
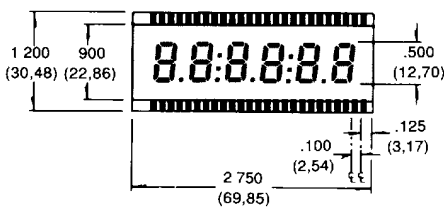
MODEL 3916, Pin Terminals



| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | Backplane | 11      | 4D      | 21      | DP      | 31      | 2F      | 41      | 4G      |
| 2       | N/C       | 12      | 4C      | 22      | 1E      | 32      | 2G      | 42      | N/C     |
| 3       | N/C       | 13      | DP 3    | 23      | 1D      | 33      | Colon   | 43      | 5B      |
| 4       | N/C       | 14      | 3E      | 24      | 1C      | 34      | 3B      | 44      | 5A      |
| 5       | N/C       | 15      | 3D      | 25      | 1B      | 35      | 3A      | 45      | 5F      |
| 6       | 5E        | 16      | 3C      | 26      | 1A      | 36      | 3F      | 46      | 5G      |
| 7       | 5D        | 17      | DP 2    | 27      | 1F      | 37      | 3G      | 47      | N/C     |
| 8       | 5C        | 18      | 2E      | 28      | 1G      | 38      | 4B      | 48      | N/C     |
| 9       | DP 4      | 19      | 2D      | 29      | 2B      | 39      | 4A      | 49      | N/C     |
| 10      | 4E        | 20      | 2C      | 30      | 2A      | 40      | 4F      | 50      | N/C     |

ELASTOMERIC VERSION = MODEL 3976

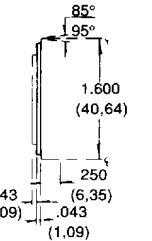
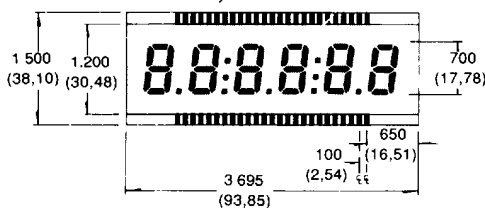
MODEL 3918, Pin Terminals



| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | BP (COM) | 11      | D4      | 21      | DP1     | 31      | F2      | 41      | G4      |
| 2       | E6       | 12      | C4      | 22      | E1      | 32      | G2      | 42      | L2      |
| 3       | D6       | 13      | DP3     | 23      | D1      | 33      | L1      | 43      | B5      |
| 4       | C6       | 14      | E3      | 24      | C1      | 34      | B3      | 44      | A5      |
| 5       | DP5      | 15      | D3      | 25      | B1      | 35      | A3      | 45      | F5      |
| 6       | E5       | 16      | C3      | 26      | A1      | 36      | F3      | 46      | G5      |
| 7       | D5       | 17      | DP2     | 27      | F1      | 37      | G3      | 47      | B6      |
| 8       | C5       | 18      | E2      | 28      | G1      | 38      | B4      | 48      | A6      |
| 9       | DP4      | 19      | D2      | 29      | B2      | 39      | A4      | 49      | F6      |
| 10      | E4       | 20      | C2      | 30      | A2      | 40      | F4      | 50      | G6      |

ELASTOMERIC VERSION = MODEL 3978

MODEL 3919, Pin Terminals



| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | BP (COM) | 11      | D4      | 21      | DP1     | 31      | F2      | 41      | G4      |
| 2       | E6       | 12      | C4      | 22      | E1      | 32      | G2      | 42      | L2      |
| 3       | D6       | 13      | DP3     | 23      | D1      | 33      | L1      | 43      | B5      |
| 4       | C6       | 14      | E3      | 24      | C1      | 34      | B3      | 44      | A5      |
| 5       | DP5      | 15      | D3      | 25      | B1      | 35      | A3      | 45      | F5      |
| 6       | E5       | 16      | C3      | 26      | A1      | 36      | F3      | 46      | G5      |
| 7       | D5       | 17      | DP2     | 27      | F1      | 37      | G3      | 47      | B6      |
| 8       | C5       | 18      | E2      | 28      | G1      | 38      | B4      | 48      | A6      |
| 9       | DP4      | 19      | D2      | 29      | B2      | 39      | A4      | 49      | F6      |
| 10      | E4       | 20      | C2      | 30      | A2      | 40      | F4      | 50      | G6      |

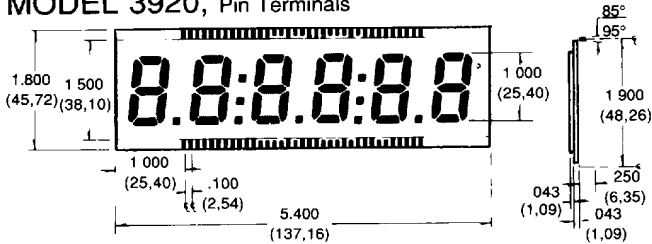
ELASTOMERIC VERSION = MODEL 3969



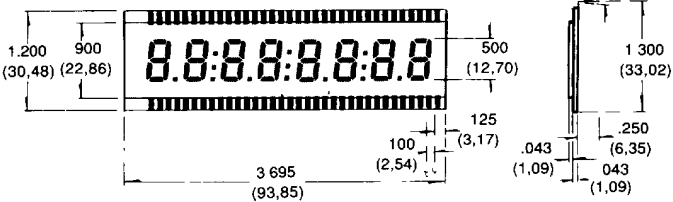
50E D ■ 8584748 0000072 274 ■ HAM

Standish LCD

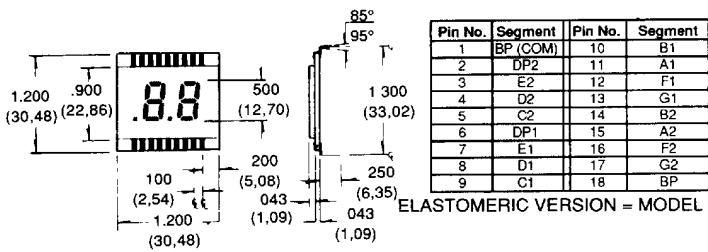
MODEL 3920, Pin Terminals



MODEL 3922, Pin Terminals

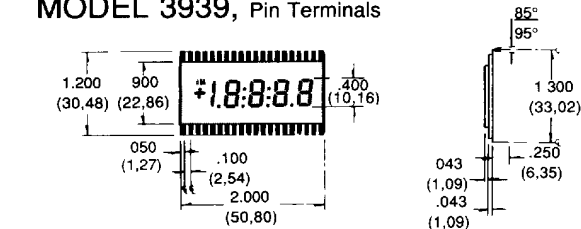


MODEL 3935, Pin Terminals

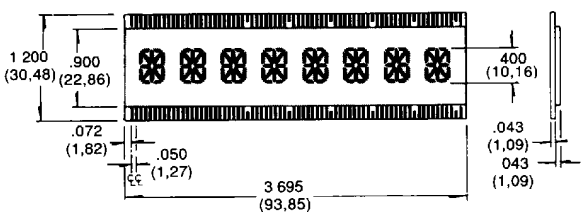


ELASTOMERIC VERSION = MODEL 3985

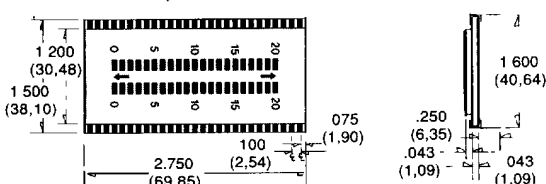
MODEL 3939, Pin Terminals



MODEL 3946, Elastomeric



MODEL 3970, Pin Terminals



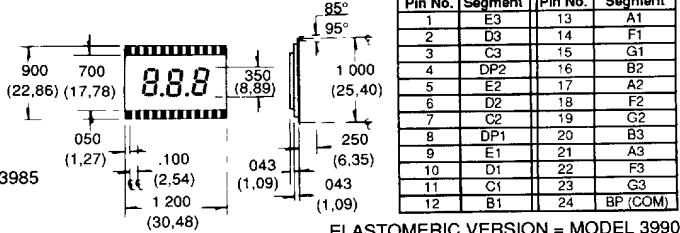
| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment  |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|
| 1       | BP (COM) | 15      | NC      | 29      | NC      | 43      | G2      | 57      | NC       |
| 2       | E6       | 16      | C4      | 30      | NC      | 44      | L1      | 58      | A4       |
| 3       | D6       | 17      | NC      | 31      | C2      | 45      | NC      | 59      | F4       |
| 4       | C6       | 18      | DP3     | 32      | DP1     | 46      | B3      | 60      | G4       |
| 5       | DP5      | 19      | E3      | 33      | E1      | 47      | NC      | 61      | L2       |
| 6       | E5       | 20      | D3      | 34      | D1      | 48      | NC      | 62      | B5       |
| 7       | D5       | 21      | NC      | 35      | C1      | 49      | NC      | 63      | A5       |
| 8       | C5       | 22      | NC      | 36      | B1      | 50      | A3      | 64      | F5       |
| 9       | DP4      | 23      | NC      | 37      | A1      | 51      | F3      | 65      | G5       |
| 10      | E4       | 24      | C3      | 38      | F1      | 52      | G3      | 66      | B6       |
| 11      | D4       | 25      | NC      | 39      | G1      | 53      | NC      | 67      | A6       |
| 12      | NC       | 26      | DP2     | 40      | B2      | 54      | NC      | 68      | F6       |
| 13      | NC       | 27      | E2      | 41      | A2      | 55      | B4      | 69      | G6       |
| 14      | NC       | 28      | D2      | 42      | F2      | 56      | NC      | 70      | BP (COM) |

ELASTOMERIC VERSION = MODEL 3980

| Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | BP (COM) | 15      | E5      | 29      | C2      | 43      | B3      | 57      | A6      |
| 2       | E8       | 16      | D5      | 30      | DP1     | 44      | A3      | 58      | F6      |
| 3       | D8       | 17      | C5      | 31      | E1      | 45      | F3      | 59      | G6      |
| 4       | C8       | 18      | DP4     | 32      | D1      | 46      | G3      | 60      | L3      |
| 5       | DP7      | 19      | E4      | 33      | C1      | 47      | B4      | 61      | B7      |
| 6       | E7       | 20      | D4      | 34      | B1      | 48      | A4      | 62      | A7      |
| 7       | D7       | 21      | C4      | 35      | A1      | 49      | F4      | 63      | F7      |
| 8       | C7       | 22      | DP3     | 36      | F1      | 50      | G4      | 64      | G7      |
| 9       | DP6      | 23      | E3      | 37      | G1      | 51      | L2      | 65      | B8      |
| 10      | NC       | 24      | D3      | 38      | B2      | 52      | B5      | 66      | A8      |
| 11      | E6       | 25      | C3      | 39      | A2      | 53      | A5      | 67      | F8      |
| 12      | D6       | 26      | DP2     | 40      | F2      | 54      | F5      | 68      | G8      |
| 13      | C6       | 27      | E2      | 41      | G2      | 55      | G5      |         |         |
| 14      | DP5      | 28      | D2      | 42      | L1      | 56      | B6      |         |         |

ELASTOMERIC VERSION = MODEL 3972

MODEL 3940, Pin Terminals



ELASTOMERIC VERSION = MODEL 3990

| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment   |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|-----------|
| 1       | Backplane | 9       | 3E      | 17      | 1E      | 25      | 2A      | 33      | Colon 2   |
| 2       | Minus     | 10      | 3D      | 18      | 1D      | 26      | 2F      | 34      | 4B        |
| 3       | 5B, C     | 11      | 3C      | 19      | 1C      | 27      | 2G      | 35      | 4A        |
| 4       | DP4       | 12      | DP2     | 20      | 1B      | 28      | Colon 1 | 36      | 4F        |
| 5       | 4E        | 13      | 2E      | 21      | 1A      | 29      | 3B      | 37      | 4G        |
| 6       | 4D        | 14      | 2D      | 22      | 1F      | 30      | 3A      | 38      | Lo Bat    |
| 7       | 4C        | 15      | 2C      | 23      | 1G      | 31      | 3F      | 39      | Plus      |
| 8       | DP3       | 16      | DP1     | 24      | 2B      | 32      | 3G      | 40      | Backplane |

ELASTOMERIC VERSION = MODEL 3989

| Cont# | Segment   | Cont# | Segment | Cont# | Segment   | Cont# | Segment | Cont# | Segment |
|-------|-----------|-------|---------|-------|-----------|-------|---------|-------|---------|
| 1     | Backplane | 28    | 6M      | 55    | 3M        | 82    | 2C      | 109   | 5L      |
| 2     | N/C       | 29    | N/C     | 56    | 2G        | 83    | 2L      | 110   | 5B      |
| 3     | 8G        | 30    | 5G      | 57    | 2Q        | 84    | 2B      | 111   | 5K      |
| 4     | 8Q        | 31    | 5Q      | 58    | 2F        | 85    | 2K      | 112   | 5A      |
| 5     | 8F        | 32    | 5F      | 59    | 2P        | 86    | 2A      | 113   | 5J      |
| 6     | 8P        | 33    | 5P      | 60    | 2E        | 87    | 2J      | 114   | 5H      |
| 7     | 8E        | 34    | 5E      | 61    | 2N        | 88    | 2H      | 115   | 5R      |
| 8     | 8N        | 35    | 5N      | 62    | 2D        | 89    | 2R      | 116   | N/C     |
| 9     | 8D        | 36    | 5D      | 63    | 2M        | 90    | 3C      | 117   | 6C      |
| 10    | 8M        | 37    | 5M      | 64    | 1G        | 91    | 3L      | 118   | 6L      |
| 11    | N/C       | 38    | N/C     | 65    | 1Q        | 92    | 3B      | 119   | 6B      |
| 12    | 7G        | 39    | 4G      | 66    | 1F        | 93    | 3K      | 120   | 6K      |
| 13    | 7Q        | 40    | 4Q      | 67    | 1P        | 94    | 3A      | 121   | 6A      |
| 14    | 7F        | 41    | 4F      | 68    | 1E        | 95    | 3J      | 122   | 6J      |
| 15    | 7P        | 42    | 4P      | 69    | 1N        | 96    | 3H      | 123   | 6H      |
| 16    | 7E        | 43    | 4E      | 70    | 1D        | 97    | 3R      | 124   | 6R      |
| 17    | 7N        | 44    | 4N      | 71    | 1M        | 98    | N/C     | 125   | N/C     |
| 18    | 7D        | 45    | 4D      | 72    | Backplane | 99    | 4C      | 126   | 7C      |
| 19    | 7M        | 46    | 4M      | 73    | Backplane | 100   | 4L      | 127   | 7L      |
| 20    | N/C       | 47    | N/C     | 74    | 1C        | 101   | 4B      | 128   | 7B      |
| 21    | 6G        | 48    | 3G      | 75    | 1L        | 102   | 4K      | 129   | 7K      |
| 22    | 6Q        | 49    | 3Q      | 76    | 1B        | 103   | 4A      | 130   | 7A      |
| 23    | 6F        | 50    | 3F      | 77    | 1K        | 104   | 4J      | 131   | 7J      |
| 24    | 6P        | 51    | 3P      | 78    | 1A        | 105   | 4H      | 132   | 7H      |
| 25    | 6E        | 52    | 3E      | 79    | 1J        | 106   | 4R      | 133   | 7R      |
| 26    | 6N        | 53    | 3N      | 80    | 1H        | 107   | N/C     | 134   | N/C     |
| 27    | 6D        | 54    | 3D      | 81    | 1R        | 108   | 5C      | 135   | 8C      |

| Pin No. | Segment | Pin No. | Segment | Pin No. | Segment    | Pin No. | Segment | Pin No. | Segment   |
|---------|---------|---------|---------|---------|------------|---------|---------|---------|-----------|
| 1       |         | 12      | Bar 9   | 23      | Bar 18     | 34      | Bar 37  | 45      | Bar 28    |
| 2       | Bar 1   | 13      | Bar 10  | 24      | Bar 19     | 35      | 5R      | 46      | Bar 27    |
| 3       | 20L     | 14      | Bar 11  | 25      | Bar 20     | 36      | Bar 36  | 47      | 15R       |
| 4       | Bar 2   | 15      | 10L     | 26      | Ol, Bar 21 | 37      | Bar 35  | 48      | Bar 26    |
| 5       | Bar 3   | 16      | Bar 12  | 27      | Backplane  | 38      | Bar 34  | 49      | Bar 25    |
| 6       | Bar 4   | 17      | Bar 13  | 28      |            | 39      | Bar 33  | 50      | Bar 24    |
| 7       | Bar 5   | 18      | Bar 14  | 29      | Or, Bar 42 | 40      | Bar 32  | 51      | Bar 23    |
| 8       | Bar 6   | 19      | Bar 15  | 30      | Bar 41     | 41      | 10R     | 52      | Bar 22    |
| 9       | 15L     | 20      | 5L      | 31      | Bar 40     | 42      | Bar 31  | 53      | 20R       |
| 10      | Bar 7   | 21      | Bar 16  | 32      | Bar 39     | 43      | Bar 30  | 54      | Backplane |
| 11      | Bar 8   | 22      | Bar 17  | 33      | Bar 38     | 44      | Bar 29  |         |           |

ELASTOMERIC VERSION = MODEL 3995



STANDISH/STANDISH L C D

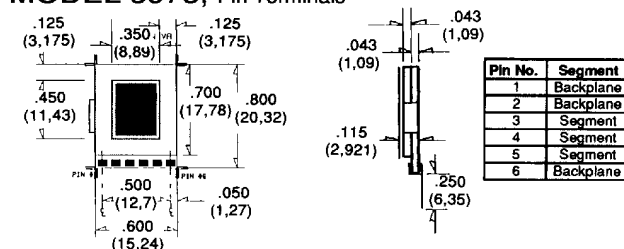
Static Drive LCDs

Standish LCD

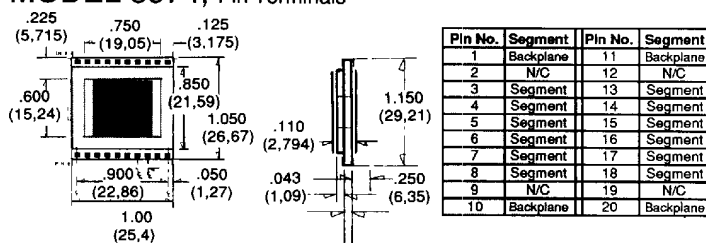
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8584748 0000073 100 HAM

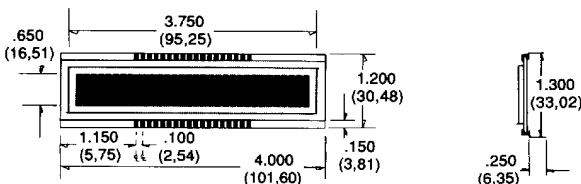
## MODEL 3973, Pin Terminals



## MODEL 3974, Pin Terminals



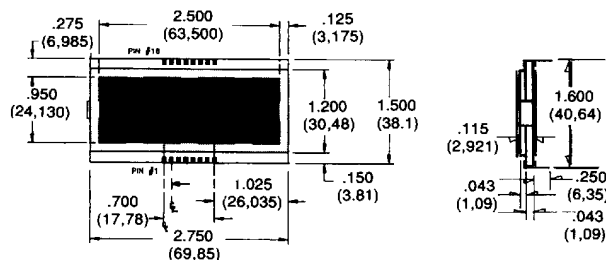
## MODEL 3975, Pin Terminals



| Pin No. | Segment  | Pin No. | Segment  | Pin No. | Segment | Pin No. | Segment  |
|---------|----------|---------|----------|---------|---------|---------|----------|
| 1       | BP (COM) | 10      | L15      | 20      | L2      | 29      | L20      |
| 2       | L31      | 11      | L13      | 21      | L4      | 30      | L22      |
| 3       | L29      | 12      | L11      | 22      | L6      | 31      | L24      |
| 4       | L27      | 13      | L9       | 23      | L8      | 32      | L26      |
| 5       | L25      | 14      | L7       | 24      | L10     | 33      | L28      |
| 6       | L23      | 15      | L5       | 25      | L12     | 34      | L30      |
| 7       | L21      | 16      | L3       | 26      | L14     | 35      | L32      |
| 8       | L19      | 17      | L1       | 27      | L16     | 36      | BP (COM) |
| 9       | L17      | 18-19   | BP (COM) | 28      | L18     |         |          |

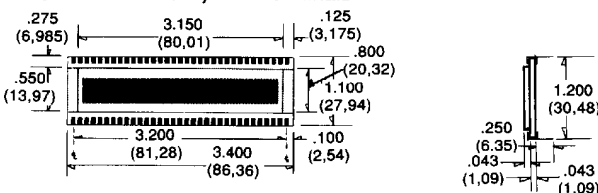
ELASTOMERIC VERSION = MODEL 3982

## MODEL 3977, Pin Terminals



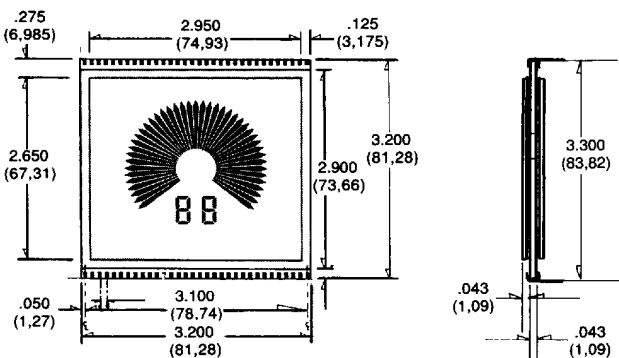
| Pin No. | Segment   | Pin No. | Segment |
|---------|-----------|---------|---------|
| 1       | Backplane | 9       | N/C     |
| 2       | Segment   | 10      | N/C     |
| 3       | Segment   | 11      | N/C     |
| 4       | Segment   | 12      | N/C     |
| 5       | Segment   | 13      | N/C     |
| 6       | Segment   | 14      | N/C     |
| 7       | Segment   | 15      | N/C     |
| 8       | Backplane | 16      | N/C     |

## MODEL 3982, Pin Terminals



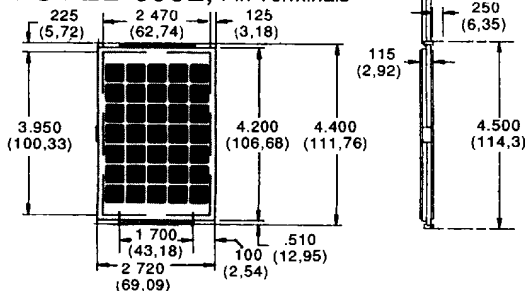
| Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|---------|---------|-----------|---------|---------|---------|---------|
| 1       | Backplane | 15      | Bar 28  | 29      | Bar 56    | 43      | Bar 47  | 57      | Bar 19  |
| 2       | Bar 2     | 16      | Bar 30  | 30      | Bar 58    | 44      | Bar 45  | 58      | Bar 17  |
| 3       | Bar 4     | 17      | Bar 32  | 31      | Bar 60    | 45      | Bar 43  | 59      | Bar 15  |
| 4       | Bar 6     | 18      | Bar 34  | 32      | Bar 62    | 46      | Bar 41  | 60      | Bar 13  |
| 5       | Bar 8     | 19      | Bar 36  | 33      | Bar 64    | 47      | Bar 39  | 61      | Bar 11  |
| 6       | Bar 10    | 20      | Bar 38  | 34      | Backplane | 48      | Bar 37  | 62      | Bar 9   |
| 7       | Bar 12    | 21      | Bar 40  | 35      | Bar 63    | 49      | Bar 35  | 63      | Bar 7   |
| 8       | Bar 14    | 22      | Bar 42  | 36      | Bar 61    | 50      | Bar 33  | 64      | Bar 5   |
| 9       | Bar 16    | 23      | Bar 44  | 37      | Bar 59    | 51      | Bar 31  | 65      | Bar 3   |
| 10      | Bar 18    | 24      | Bar 46  | 38      | Bar 57    | 52      | Bar 29  | 66      | Bar 1   |
| 11      | Bar 20    | 25      | Bar 48  | 39      | Bar 55    | 53      | Bar 27  |         |         |
| 12      | Bar 22    | 26      | Bar 50  | 40      | Bar 53    | 54      | Bar 25  |         |         |
| 13      | Bar 24    | 27      | Bar 52  | 41      | Bar 51    | 55      | Bar 23  |         |         |
| 14      | Bar 26    | 28      | Bar 54  | 42      | Bar 49    | 56      | Bar 21  |         |         |

## MODEL 3986, Pin Terminals



| Pin No. | Segment   | Pin No. | Segment   | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|-----------|---------|-----------|---------|---------|---------|---------|---------|---------|
| 1       | Bar 7     | 14      | 2D        | 27      | Bar 42  | 40      | Bar 29  | 53      | Bar 19  |
| 2       | Bar 6     | 15      | 2C        | 28      | Bar 41  | 41      | Bar 28  | 54      | Bar 18  |
| 3       | Bar 5     | 16      | 2B        | 29      | Bar 40  | 42      | Bar 27  | 55      | Bar 17  |
| 4       | Bar 4     | 17      | 1A        | 30      | Bar 39  | 43      | Bar 26  | 56      | Bar 16  |
| 5       | Bar 3     | 18      | 1F        | 31      | Bar 38  | 44      | Bar 25  | 57      | Bar 15  |
| 6       | Bar 2     | 19      | 1G        | 32      | Bar 37  | 45      | N/C     | 58      | Bar 14  |
| 7       | Bar 1     | 20      | 1E        | 33      | Bar 36  | 46      | Bar 24  | 59      | Bar 13  |
| 8       | Backplane | 21      | 1D        | 34      | Bar 35  | 47      | Bar 23  | 60      | Bar 12  |
| 9       | Backplane | 22      | 1C        | 35      | Bar 34  | 48      | N/C     | 61      | Bar 11  |
| 10      | 2A        | 23      | 1B        | 36      | Bar 33  | 49      | Bar 22  | 62      | Bar 10  |
| 11      | 2F        | 24      | Backplane | 37      | Bar 32  | 50      | Bar 21  | 63      | Bar 9   |
| 12      | 2G        | 25      | Backplane | 38      | Bar 31  | 51      | N/C     | 64      | Bar 8   |
| 13      | 2E        | 26      | Bar 43    | 39      | Bar 30  | 52      | Bar 20  |         |         |

## MODEL 3992, Pin Terminals



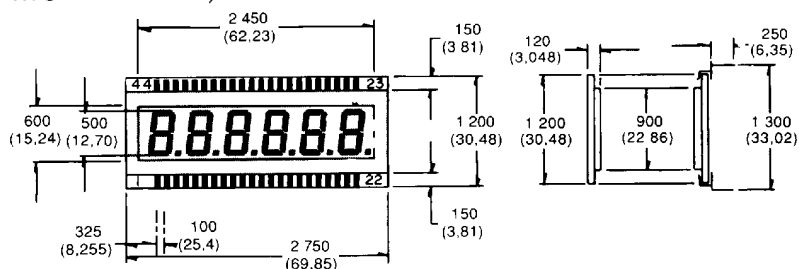
|    |    |    |    |    |
|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 |

| Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment   |
|---------|---------|---------|---------|---------|---------|---------|-----------|
| 1       | Box 16  | 10      | Box 28  | 19      | Box 11  | 28      | Box 3     |
| 2       | Box 21  | 11      | Box 33  | 20      | Box 6   | 29      | Box 19    |
| 3       | Box 26  | 12      | Box 24  | 21      | Box 1   | 30      | Box 14    |
| 4       | Box 31  | 13      | Box 29  | 22      | Box 17  | 31      | Box 9     |
| 5       | Box 22  | 14      | Box 34  | 23      | Box 12  | 32      | Box 4     |
| 6       | Box 27  | 15      | Box 20  | 24      | Box 7   | 33      | Box 15    |
| 7       | Box 32  | 16      | Box 25  | 25      | Box 2   | 34      | Box 10    |
| 8       | Box 18  | 17      | Box 30  | 26      | Box 13  | 35      | Box 5     |
| 9       | Box 23  | 18      | Box 35  | 27      | Box 8   | 36      | Backplane |

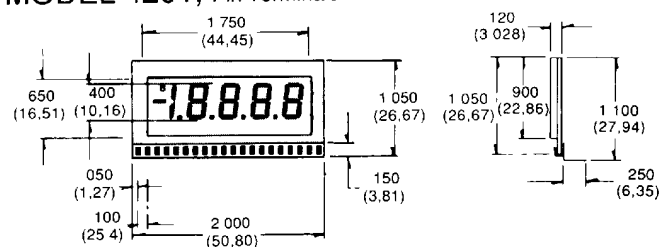


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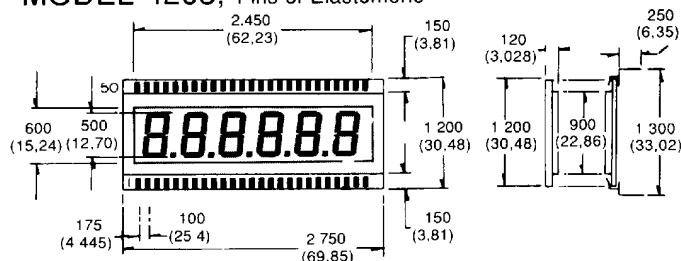
## MODEL 4200, Pins or Elastomeric



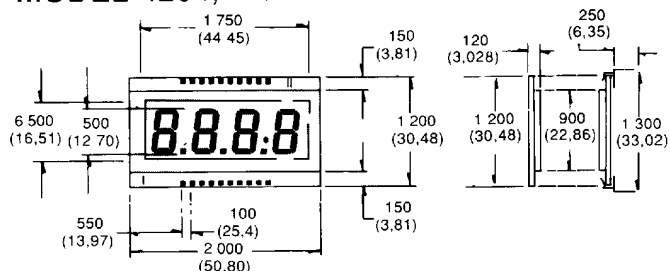
## MODEL 4201, Pin Terminals



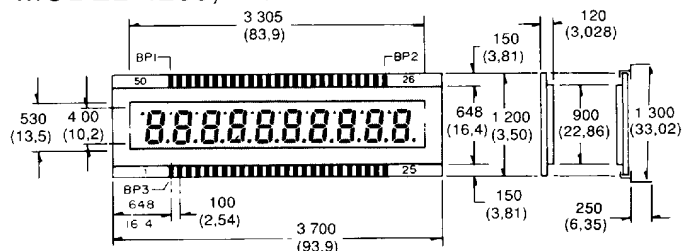
## MODEL 4203, Pins or Elastomeric



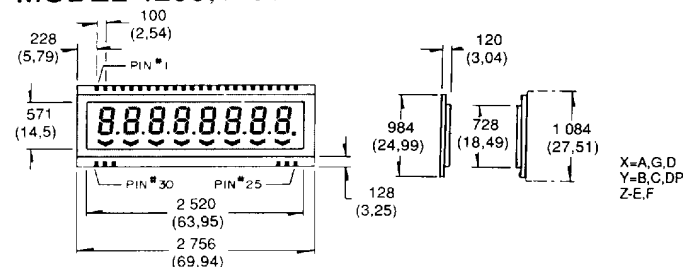
## MODEL 4204, Pins or Elastomeric



## MODEL 4205, Pins or Elastomeric



## MODEL 4206, Pins or Elastomeric



| CONT# | BP 1 | BP 2 | BP 3 | BP 4 | CONT# | BP 1 | BP 2 | BP 3 | BP 4 |
|-------|------|------|------|------|-------|------|------|------|------|
| 1     | —    | —    | —    | BP 4 | 23    | —    | BP 2 | —    | —    |
| 2     | —    | —    | —    | BP 4 | 24    | —    | BP 2 | —    | —    |
| 3     | 6F   | 6G   | 6E   | 6D   | 25    | N/C  | N/C  | N/C  | N/C  |
| 4     | 6A   | 6B   | 6C   | 6D   | 26    | N/C  | N/C  | N/C  | N/C  |
| 5     | N/C  | N/C  | N/C  | N/C  | 27    | N/C  | N/C  | N/C  | N/C  |
| 6     | 5F   | 5G   | 5E   | 5D   | 28    | N/C  | N/C  | N/C  | N/C  |
| 7     | 5A   | 5B   | 5C   | 5D   | 29    | N/C  | N/C  | N/C  | N/C  |
| 8     | N/C  | N/C  | N/C  | N/C  | 30    | N/C  | N/C  | N/C  | N/C  |
| 9     | 4F   | 4G   | 4E   | 4D   | 31    | N/C  | N/C  | N/C  | N/C  |
| 10    | 4A   | 4B   | 4C   | 4D   | 32    | N/C  | N/C  | N/C  | N/C  |
| 11    | N/C  | N/C  | N/C  | N/C  | 33    | N/C  | N/C  | N/C  | N/C  |
| 12    | 3F   | 3G   | 3E   | 3D   | 34    | N/C  | N/C  | N/C  | N/C  |
| 13    | 3A   | 3B   | 3C   | 3D   | 35    | N/C  | N/C  | N/C  | N/C  |
| 14    | N/C  | N/C  | N/C  | N/C  | 36    | N/C  | N/C  | N/C  | N/C  |
| 15    | 2F   | 2G   | 2E   | 2D   | 37    | N/C  | N/C  | N/C  | N/C  |
| 16    | 2A   | 2B   | 2C   | 2D   | 38    | N/C  | N/C  | N/C  | N/C  |
| 17    | N/C  | N/C  | N/C  | N/C  | 39    | N/C  | N/C  | N/C  | N/C  |
| 18    | N/C  | N/C  | N/C  | N/C  | 40    | N/C  | N/C  | N/C  | N/C  |
| 19    | 1F   | 1G   | 1E   | 1D   | 41    | N/C  | N/C  | N/C  | N/C  |
| 20    | 1A   | 1B   | 1C   | 1D   | 42    | N/C  | N/C  | N/C  | N/C  |
| 21    | —    | —    | BP 3 | —    | 43    | BP 1 | —    | —    | —    |
| 22    | —    | —    | BP 3 | —    | 44    | BP 1 | —    | —    | —    |

| CONT# | BP 1 | BP 2 | BP 3       | CONT# | BP 1 | BP 2 | BP 3       |
|-------|------|------|------------|-------|------|------|------------|
| 1     | BP 1 | —    | —          | 11    | 3B   | 3C   | Minus Sign |
| 2     | —    | —    | BP 3       | 12    | 2F   | 2E   | DP 2       |
| 3     | N/C  | N/C  | N/C        | 13    | 2A   | 2G   | 2D         |
| 4     | N/C  | N/C  | N/C        | 14    | 2B   | 2C   | "B"        |
| 5     | N/C  | N/C  | N/C        | 15    | 1F   | 1E   | DP 1       |
| 6     | 4F   | 4E   | 4D         | 16    | 1A   | 1G   | 1D         |
| 7     | 4A   | 4G   | 4D         | 17    | 1B   | 1C   | —          |
| 8     | 4B   | 4C   | Half Digit | 18    | N/C  | N/C  | N/C        |
| 9     | 3F   | 3E   | DP 3       | 19    | —    | —    | BP 3       |
| 10    | 3A   | 3G   | 3D         | 20    | —    | BP 2 | —          |

| CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 |
|-------|------|------|------|-------|------|------|------|-------|------|------|------|
| 1     | —    | BP 2 | —    | 18    | 2A   | 2G   | 2D   | 35    | 3B   | 3C   | DP 2 |
| 2     | —    | BP 2 | —    | 19    | N/C  | N/C  | N/C  | 36    | N/C  | N/C  | N/C  |
| 3     | 6F   | 6E   | —    | 20    | N/C  | N/C  | N/C  | 37    | N/C  | N/C  | N/C  |
| 4     | 6A   | 6G   | 6D   | 21    | 1F   | 1E   | —    | 38    | N/C  | N/C  | N/C  |
| 5     | N/C  | N/C  | N/C  | 22    | 1A   | 1G   | 1D   | 39    | 4B   | 4C   | DP 3 |
| 6     | 5F   | 5E   | —    | 23    | N/C  | N/C  | N/C  | 40    | N/C  | N/C  | N/C  |
| 7     | 5A   | 5G   | 5D   | 24    | —    | —    | BP 3 | 41    | N/C  | N/C  | N/C  |
| 8     | N/C  | N/C  | N/C  | 25    | —    | —    | BP 3 | 42    | N/C  | N/C  | N/C  |
| 9     | 4F   | 4E   | —    | 26    | —    | —    | BP 3 | 43    | 5B   | 5C   | DP 4 |
| 10    | 4A   | 4G   | 4D   | 27    | —    | —    | BP 3 | 44    | N/C  | N/C  | N/C  |
| 11    | N/C  | N/C  | N/C  | 28    | 1B   | 1C   | —    | 45    | N/C  | N/C  | N/C  |
| 12    | N/C  | N/C  | N/C  | 29    | N/C  | N/C  | N/C  | 46    | N/C  | N/C  | N/C  |
| 13    | 3F   | 3E   | —    | 30    | N/C  | N/C  | N/C  | 47    | 6B   | 6C   | DP 5 |
| 14    | 3A   | 3G   | 3D   | 31    | 2B   | 2C   | DP 1 | 48    | N/C  | N/C  | N/C  |
| 15    | N/C  | N/C  | N/C  | 32    | N/C  | N/C  | N/C  | 49    | BP 1 | —    | —    |
| 16    | N/C  | N/C  | N/C  | 33    | N/C  | N/C  | N/C  | 50    | BP 1 | —    | —    |
| 17    | 2F   | 2E   | —    | 34    | N/C  | N/C  | N/C  |       |      |      |      |

| CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 |
|-------|------|------|------|-------|------|------|------|
| 1     | N/C  | N/C  | N/C  | 11    | BP 1 | —    | —    |
| 2     | N/C  | N/C  | N/C  | 12    | 1A   | 1G   | 1D   |
| 3     | N/C  | N/C  | N/C  | 13    | 1F   | 1E   | —    |
| 4     | 4B   | 4C   | DP 3 | 14    | 2A   | 2G   | 2D   |
| 5     | N/C  | N/C  | N/C  | 15    | 2F   | 2E   | —    |
| 6     | 3B   | 3C   | DP 2 | 16    | 3A   | 3G   | 3D   |
| 7     | 1B   | 1C   | —    | 17    | 3F   | 3E   | —    |
| 8     | —    | —    | BP 3 | 18    | 4A   | 4G   | 4D   |
| 9     | N/C  | N/C  | N/C  | 19    | 4F   | 4E   | —    |
| 10    | N/C  | N/C  | N/C  | 20    | —    | BP 2 | —    |

| CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 |
|-------|------|------|------|-------|------|------|------|-------|------|------|------|
| 1     | —    | —    | BP 3 | 18    | 4A   | 4G   | 4D   | 35    | 5B   | 5C   | 5DP  |
| 2     | 10T  | 10F  | 10E  | 19    | N/C  | N/C  | N/C  | 36    | 5A   | 5G   | 5D   |
| 3     | 9T   | 9F   | 9E   | 20    | 3T   | 3F   | 3E   | 37    | N/C  | N/C  | N/C  |
| 4     | 8T   | 8F   | 8E   | 21    | 3A   | 3G   | 3D   | 38    | 6B   | 6C   | 6DP  |
| 5     | 8A   | 8G   | 8D   | 22    | N/C  | N/C  | N/C  | 39    | 6A   | 6G   | 6D   |
| 6     | N/C  | N/C  | N/C  | 23    | 2T   | 2F   | 2E   | 40    | N/C  | N/C  | N/C  |
| 7     | N/C  | N/C  | N/C  | 24    | 1T   | 1F   | 1E   | 41    | 7B   | 7C   | 7DP  |
| 8     | 7T   | 7F   | 7E   | 25    | 1A   | 1G   | 1D   | 42    | N/C  | N/C  | N/C  |
| 9     | 7A   | 7G   | 7D   | 26    | —    | —    | BP 2 | 43    | N/C  | N/C  | N/C  |
| 10    | N/C  | N/C  | N/C  | 27    | 1B   | 1C   | 1DP  | 44    | 8B   | 8C   | 8DP  |
| 11    | 6T   | 6F   | 6E   | 28    | 2B   | 2C   | 2DP  | 45    | N/C  | N/C  | N/C  |
| 12    | N/C  | N/C  | N/C  | 29    | 2A   | 2G   | 2D   | 46    | 9B   | 9C   | 9DP  |
| 13    | N/C  | N/C  | N/C  | 30    | 3B   | 3C   | 3DP  | 47    | 9A   | 9G   | 9D   |
| 14    | N/C  | N/C  | N/C  | 31    | N/C  | N/C  | N/C  | 48    | 10B  | 10C  | 10DP |
| 15    | 5T   | 5F   | 5E   | 32    | N/C  | N/C  | N/C  | 49    | 10A  | 10G  | 10D  |
| 16    | N/C  | N/C  | N/C  | 33    | 4B   | 4C   | 4DP  | 50    | BP 1 | —    | —    |
| 17    | 4T   | 4F   | 4E   | 34    | N/C  | N/C  | N/C  |       |      |      |      |

| Pin No. | 1    | 2  | 3  | 4   | 5    | 6  | 7  | 8  | 9  | 10  | 11   | 12  | 13  | 14  | 15   |
|---------|------|----|----|-----|------|----|----|----|----|-----|------|-----|-----|-----|------|
|         | Z1   | X1 | Z2 | DP1 | AN-2 | X2 | Y2 | X3 | Y3 | Z4  | AN-4 | X4  | Y4  | Z5  | AN-5 |
|         | AN-1 | X6 | Y6 | DP6 | AN-7 | X7 | Y7 | X8 | Y8 | BP1 | BP2  | BP3 | BP4 | BP5 | BP6  |



STANDISH/STANDISH L C D

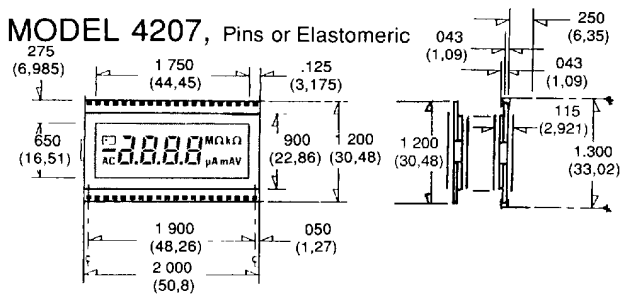
Multiplex LCDs

Standish LCD

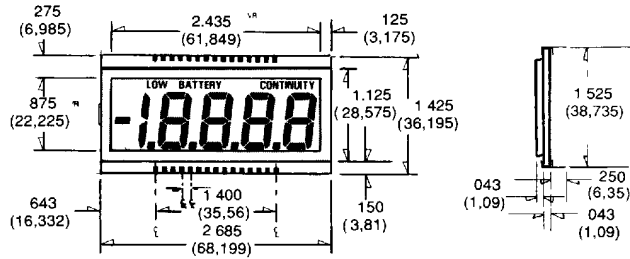
50E D

8584748 0000075 T83 HAM

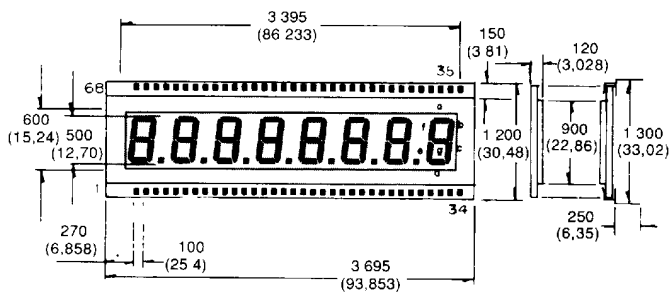
MODEL 4207, Pins or Elastomeric



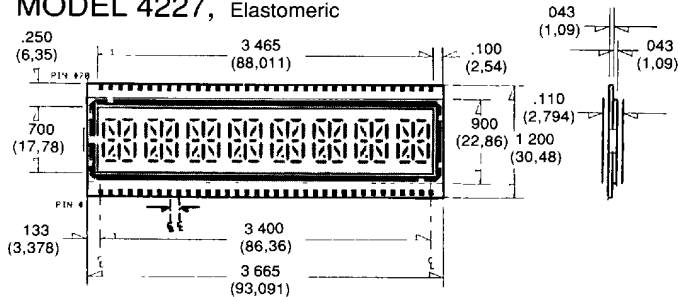
MODEL 4209, Pin Terminals



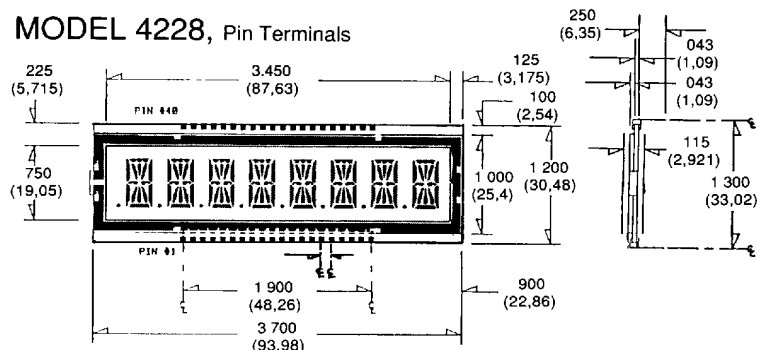
MODEL 4216, Pins or Elastomeric



MODEL 4227, Elastomeric



MODEL 4228, Pin Terminals



| CONT# | BP 1  | BP 2 | CONT# | BP 1 | BP 2 | CONT# | BP 1 | BP 2 | CONT# | BP 1   | BP 2 |
|-------|-------|------|-------|------|------|-------|------|------|-------|--------|------|
| 1     | —     | —    | 11    | N/C  | N/C  | 21    | BP 1 | —    | 31    | 2A     | 2C   |
| 2     | Minus | AC   | 12    | 1G   | 1E   | 22    | N/C  | N/C  | 32    | 2A     | —    |
| 3     | N/C   | N/C  | 13    | —    | 1D   | 23    | Ω    | A    | 33    | 2F     | DP 2 |
| 4     | 3G    | 3E   | 14    | N/C  | N/C  | 24    | k    | m    | 34    | 3B     | 3C   |
| 5     | —     | 3D   | 15    | —    | V    | 25    | MΩ   | μA   | 35    | 3A     | —    |
| 6     | N/C   | N/C  | 16    | N/C  | N/C  | 26    | N/C  | N/C  | 36    | 3F     | DP 3 |
| 7     | N/C   | N/C  | 17    | N/C  | N/C  | 27    | 1B   | 1C   | 37    | 4B     | 4C   |
| 8     | 2G    | 2E   | 18    | N/C  | N/C  | 28    | 1A   | —    | 38    | 4A,D,G | 4E   |
| 9     | —     | 2D   | 19    | N/C  | N/C  | 29    | N/C  | N/C  | 39    | Batt   | —    |
| 10    | N/C   | N/C  | 20    | —    | BP 2 | 30    | 1F   | DP 1 | 40    | BP 1   | —    |

| CONT# | BP 1 | BP 2 | BP 3       | CONT# | BP 1 | BP 2 | BP 3        |
|-------|------|------|------------|-------|------|------|-------------|
| 1     | 4F   | 4E   | DP 4       | 9     | 2B   | 2C   | Low Battery |
| 2     | 4A   | 4G   | 4D         | 10    | 1F   | 1E   | DP 1        |
| 3     | 4B   | 4C   | Halt Digit | 11    | 1A   | 1G   | 1D          |
| 4     | 3F   | 3E   | DP 3       | 12    | 1B   | 1C   | Continuity  |
| 5     | 3A   | 3G   | 3D         | 13    | —    | —    | BP 3        |
| 6     | 3B   | 3C   | Minus      | 14    | —    | BP 2 | —           |
| 7     | 2F   | 2E   | DP 2       | 15    | BP 1 | —    | —           |
| 8     | 2A   | 2G   | 2D         | —     | —    | —    | —           |

NOTE TOP ROW OF PINS FOR MECHANICAL SUPPORT ONLY

| CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 |
|-------|------|------|------|-------|------|------|------|-------|------|------|------|
| 1     | —    | —    | BP 3 | 26    | —    | 2F   | 2E   | 51    | N/C  | N/C  | N/C  |
| 2     | —    | 8F   | 8E   | 27    | 2A   | 2G   | 2D   | 52    | N/C  | N/C  | N/C  |
| 3     | N/C  | N/C  | N/C  | 28    | N/C  | N/C  | N/C  | 53    | 5B   | 5C   | DP 4 |
| 4     | —    | 7F   | 7E   | 29    | N/C  | N/C  | N/C  | 54    | N/C  | N/C  | N/C  |
| 5     | 7A   | 7G   | 7D   | 30    | —    | 1F   | 1E   | 55    | N/C  | N/C  | N/C  |
| 6     | N/C  | N/C  | N/C  | 31    | 1A   | 1G   | 1D   | 56    | N/C  | N/C  | N/C  |
| 7     | N/C  | N/C  | N/C  | 32    | 1B   | 1C   | —    | 57    | 6B   | 6C   | DP 5 |
| 8     | N/C  | N/C  | N/C  | 33    | N/C  | N/C  | N/C  | 58    | N/C  | N/C  | N/C  |
| 9     | —    | 6F   | 6E   | 34    | BP 1 | —    | —    | 59    | N/C  | N/C  | N/C  |
| 10    | 6A   | 6G   | 6D   | 35    | BP 1 | —    | —    | 60    | N/C  | N/C  | N/C  |
| 11    | N/C  | N/C  | N/C  | 36    | N/C  | N/C  | N/C  | 61    | 7B   | 7C   | DP 6 |
| 12    | N/C  | N/C  | N/C  | 37    | N/C  | N/C  | N/C  | 62    | N/C  | N/C  | N/C  |
| 13    | —    | 5F   | 5E   | 38    | N/C  | N/C  | N/C  | 63    | N/C  | N/C  | N/C  |
| 14    | 5A   | 5G   | 5D   | 39    | N/C  | N/C  | N/C  | 64    | N/C  | N/C  | N/C  |
| 15    | N/C  | N/C  | N/C  | 40    | 2B   | 2C   | DP 1 | 65    | N/C  | N/C  | N/C  |
| 16    | N/C  | N/C  | N/C  | 41    | N/C  | N/C  | N/C  | 66    | 8B   | 8C   | DP 7 |
| 17    | —    | 4F   | 4E   | 42    | N/C  | N/C  | N/C  | 67    | 8A   | 8G   | 8D   |
| 18    | 4A   | 4G   | 4D   | 43    | N/C  | N/C  | N/C  | 68    | —    | BP 2 | —    |
| 19    | N/C  | N/C  | N/C  | 44    | 3B   | 3C   | DP 2 | —     | —    | —    | —    |
| 20    | N/C  | N/C  | N/C  | 45    | N/C  | N/C  | N/C  | —     | —    | —    | —    |
| 21    | N/C  | N/C  | N/C  | 46    | N/C  | N/C  | N/C  | —     | —    | —    | —    |
| 22    | —    | 3F   | 3E   | 47    | N/C  | N/C  | N/C  | —     | —    | —    | —    |
| 23    | 3A   | 3G   | 3D   | 48    | 4B   | 4C   | DP 3 | —     | —    | —    | —    |
| 24    | N/C  | N/C  | N/C  | 49    | N/C  | N/C  | N/C  | —     | —    | —    | —    |
| 25    | N/C  | N/C  | N/C  | 50    | N/C  | N/C  | N/C  | —     | —    | —    | —    |

| CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 | CONT# | BP 1 | BP 2 | BP 3 |
|-------|------|------|------|-------|------|------|------|-------|------|------|------|
| 1     | —    | —    | BP 3 | 26    | N/C  | N/C  | N/C  | 51    | 4L   | 4M   | 4N   |
| 2     | N/C  | N/C  | N/C  | 27    | 2G   | 2F   | 2P   | 52    | 4H   | 4K   | 4I   |
| 3     | 8G   | 8F   | 8P   | 28    | —    | DP 2 | 2E   | 53    | N/C  | N/C  | N/C  |
| 4     | —    | DP 8 | 8E   | 29    | 2B   | 2C   | 2D   | 54    | 5A   | 5M   | 5J   |
| 5     | 8B   | 8C   | 8D   | 30    | N/C  | N/C  | N/C  | 55    | 5L   | 5O   | 5N   |
| 6     | N/C  | N/C  | N/C  | 31    | 1G   | 1F   | 1P   | 56    | 5H   | 5K   | 5I   |
| 7     | 7G   | 7F   | 7P   | 32    | —    | DP 1 | 1E   | 57    | N/C  | N/C  | N/C  |
| 8     | —    | DP 7 | 7E   | 33    | 1B   | 1C   | 1D   | 58    | 6A   | 6M   | 6J   |
| 9     | 7B   | 7C   | 7D   | 34    | —    | —    | BP 3 | 59    | 6L   | 6O   | 6N   |
| 10    | N/C  | N/C  | N/C  | 35    | —    | BP 2 | —    | 60    | 6H   | 6K   | 6I   |
| 11    | 6G   | 6F   | 6P   | 36    | BP 1 | —    | —    | 61    | N/C  | N/C  | N/C  |
| 12    | —    | DP 6 | 6E   | 37    | N/C  | N/C  | N/C  | 62    | 7A   | 7M   | 7N   |
| 13    | 6B   | 6C   | 6D   | 38    | 1A   | 1M   | 1J   | 63    | 7L   | 7O   | 7J   |
| 14    | N/C  | N/C  | N/C  | 39    | 1L   | 1O   | 1N   | 64    | 7H   | 7K   | 7I   |
| 15    | 5G   | 5F   | 5P   | 40    | 1H   | 1K   | 1I   | 65    | N/C  | N/C  | N/C  |
| 16    | —    | DP 5 | 5E   | 41    | N/C  | N/C  | N/C  | 66    | 8A   | 8M   | 8J   |
| 17    | 5B   | 5C   | 5D   | 42    | 2A   | 2M   | 2J   | 67    | 8L   | 8O   | 8N   |
| 18    | N/C  | N/C  | N/C  | 43    | 2L   | 2O   | 2N   | 68    | 8H   | 8K   | 8I   |
| 19    | 4G   | 4F   | 4P   | 44    | 2H   | 2K   | 2I   | 69    | BP 1 | —    | —    |
| 20    | —    | DP 4 | 4E   | 45    | N/C  | N/C  | N/C  | 70    | —    | BP 2 | —    |
| 21    | 4B   | 4C   | 4D   | 46    | 3A   | 3M   | 3J   | —     | —    | —    | —    |
| 22    | N/C  | N/C  | N/C  | 47    | 3L   | 3O   | 3N   | —     | —    | —    | —    |
| 23    | 3G   | 3F   | 3P   | 48    | 3H   | 3K   | 3I   | —     | —    | —    | —    |
| 24    | —    | DP 3 | 3E   | 49    | N/C  | N/C  | N/C  | —     | —    | —    | —    |
| 25    | 3B   | 3C   | 3D   | 50    | 4A   | 4M   | 4J   | —     | —    | —    | —    |

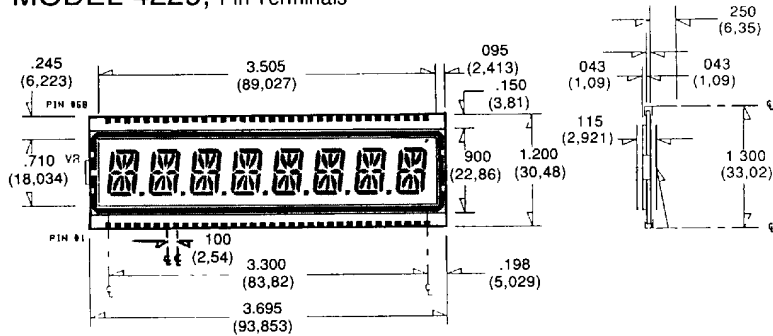
| CONT# | BP 1 | BP 2 | BP 3 | BP 4 | CONT# | BP 1 | BP 2 | BP 3 | BP 4 |
|-------|------|------|------|------|-------|------|------|------|------|
| 1     | —    | —    | BP 3 | —    | 21    | BP 1 | —    | —    | —    |
| 2     | —    | 8F   | 8E   | 8D   | 22    | 1A   | 1B   | 1C   | DP 1 |
| 3     | 8J   | 8K   | 8H   | 8L   | 23    | 1I   | 1G   | 1M   | 1N   |
| 4     | —    | 7F   | 7E   | 7D   | 24    | 2A   | 2B   | 2C   | DP 2 |
| 5     | 7J   | 7K   | 7H   | 7L   | 25    | 2I   | 2G   | 2N   | 2M   |
| 6     | —    | 6F   | 6E   | 6D   | 26    | 3A   | 3B   | 3C   | DP 3 |
| 7     | 6J   | 6K   | 6H   | 6L   | 27    | 3I   | 3G   | 3N   | 3M   |
| 8     | —    | 5F   | 5E   | 5D   | 28    | 4A   | 4B   | 4C   | DP 4 |
| 9     | 5J   | 5K   | 5H   | 5L   | 29    | N/C  | N/C  | N/C  | N/C  |
| 10    | —    | 4F   | 4E   | 4D   | 30    | 4I   | 4G   | 4N   | 4M   |
| 11    | N/C  | N/C  | N/C  | N/C  | 31    | N/C  | N/C  | N/C  | N/C  |
| 12    | 4J   | 4K   | 4H   | 4L   | 32    | 5A   | 5B   | 5C   | DP 5 |
| 13    | N/C  | N/C  | N/C  | N/C  | 33    | 5I   | 5G   | 5N   | 5M   |
| 14    | —    | 3F   | 3E   | 3D   | 34    | 6A   | 6B   | 6C   | DP 6 |
| 15    | 3J   | 3K   | 3H   | 3L   | 35    | 6I   | 6G   | 6N   | 6M   |
| 16    | —    | 2F   | 2E   | 2D   | 36    | 7A   | 7B   | 7C   | DP 7 |
| 17    | 2J   | 2K   | 2H   | 2L   | 37    | 7I   | 7G   | 7N   | 7M   |
| 18    | —    | 1F   | 1E   | 1D   | 38    | 8A   | 8B   | 8C   | DP 8 |
| 19    | 1J   | 1K   | 1H   | 1L   | 39    | 8I   | 8G   | 8N   | 8M   |
| 20    | —    | —    | —    | BP 4 | 40    | —    | BP 2 | —    | —    |



50E D ■ 8584748 0000076 91T ■ HAM

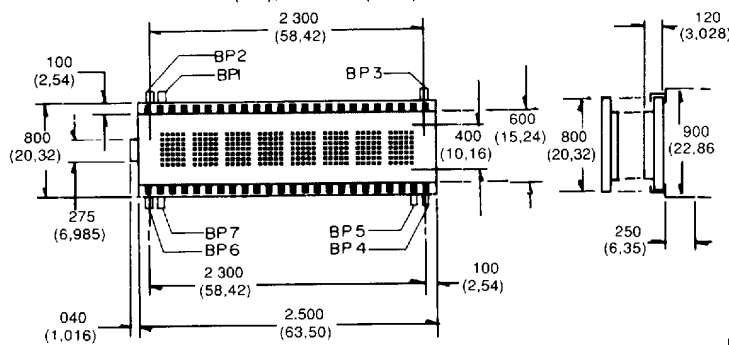
Standish LCD

MODEL 4229, Pin Terminals



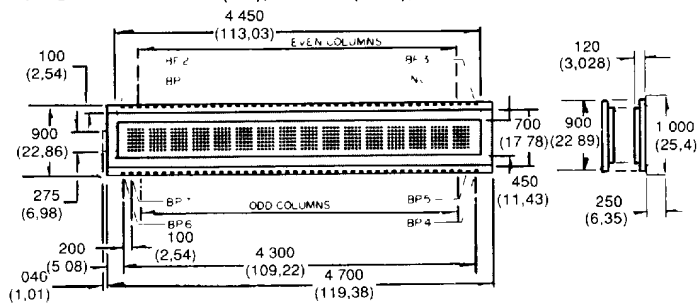
| Pin No. | BP 1 | BP 2 | BP 3 | BP 4      | Pin No. | BP 1      | BP 2      | BP 3 | BP 4  |
|---------|------|------|------|-----------|---------|-----------|-----------|------|-------|
| 1       | —    | —    | —    | Backplane | 35      | —         | Backplane | —    | —     |
| 2       | N/C  | N/C  | N/C  | N/C       | 36      | 1A        | 1B        | 1C   | —     |
| 3       | N/C  | N/C  | N/C  | N/C       | 37      | N/C       | N/C       | N/C  | N/C   |
| 4       | —    | 8F   | 8E   | 8D        | 38      | 1H        | 1G        | 1P   | 1N    |
| 5       | N/C  | N/C  | N/C  | N/C       | 39      | N/C       | N/C       | N/C  | N/C   |
| 6       | 8J   | 8K   | 8L   | 8M        | 40      | 2A        | 2B        | 2C   | Dec 2 |
| 7       | N/C  | N/C  | N/C  | N/C       | 41      | N/C       | N/C       | N/C  | N/C   |
| 8       | —    | 7F   | 7E   | 7D        | 42      | 2H        | 2G        | 2P   | 2N    |
| 9       | N/C  | N/C  | N/C  | N/C       | 43      | N/C       | N/C       | N/C  | N/C   |
| 10      | 7J   | 7K   | 7L   | 7M        | 44      | 3A        | 3B        | 3C   | Dec 3 |
| 11      | N/C  | N/C  | N/C  | N/C       | 45      | N/C       | N/C       | N/C  | N/C   |
| 12      | —    | 6F   | 6E   | 6D        | 46      | 3H        | 3G        | 3P   | 3N    |
| 13      | N/C  | N/C  | N/C  | N/C       | 47      | N/C       | N/C       | N/C  | N/C   |
| 14      | 6J   | 6K   | 6L   | 6M        | 48      | 4A        | 4B        | 4C   | Dec 4 |
| 15      | N/C  | N/C  | N/C  | N/C       | 49      | N/C       | N/C       | N/C  | N/C   |
| 16      | —    | 5F   | 5E   | 5D        | 50      | 4H        | 4G        | 4P   | 4N    |
| 17      | N/C  | N/C  | N/C  | N/C       | 51      | N/C       | N/C       | N/C  | N/C   |
| 18      | 5J   | 5K   | 5L   | 5M        | 52      | 5A        | 5B        | 5C   | Dec 5 |
| 19      | N/C  | N/C  | N/C  | N/C       | 53      | N/C       | N/C       | N/C  | N/C   |
| 20      | —    | 4F   | 4E   | 4D        | 54      | 5H        | 5G        | 5P   | 5N    |
| 21      | N/C  | N/C  | N/C  | N/C       | 55      | N/C       | N/C       | N/C  | N/C   |
| 22      | 4J   | 4K   | 4L   | 4M        | 56      | 6A        | 6B        | 6C   | Dec 6 |
| 23      | N/C  | N/C  | N/C  | N/C       | 57      | N/C       | N/C       | N/C  | N/C   |
| 24      | —    | 3F   | 3E   | 3D        | 58      | 6H        | 6G        | 6P   | 6N    |
| 25      | N/C  | N/C  | N/C  | N/C       | 59      | N/C       | N/C       | N/C  | N/C   |
| 26      | 3J   | 3K   | 3L   | 3M        | 60      | 7A        | 7B        | 7C   | Dec 7 |
| 27      | N/C  | N/C  | N/C  | N/C       | 61      | N/C       | N/C       | N/C  | N/C   |
| 28      | —    | 2F   | 2E   | 2D        | 62      | 7H        | 7G        | 7P   | 7N    |
| 29      | N/C  | N/C  | N/C  | N/C       | 63      | N/C       | N/C       | N/C  | N/C   |
| 30      | 2J   | 2K   | 2L   | 2M        | 64      | 8A        | 8B        | 8C   | Dec 8 |
| 31      | N/C  | N/C  | N/C  | N/C       | 65      | N/C       | N/C       | N/C  | N/C   |
| 32      | —    | 1F   | 1E   | 1D        | 66      | 8H        | 8G        | 8P   | 8N    |
| 33      | 1J   | 1K   | 1L   | 1M        | 67      | N/C       | N/C       | N/C  | N/C   |
| 34      | —    | —    | —    | Backplane | 68      | Backplane | —         | —    | —     |

MODEL 4284 (TN), 4264 (STN), Pins or Elastomeric



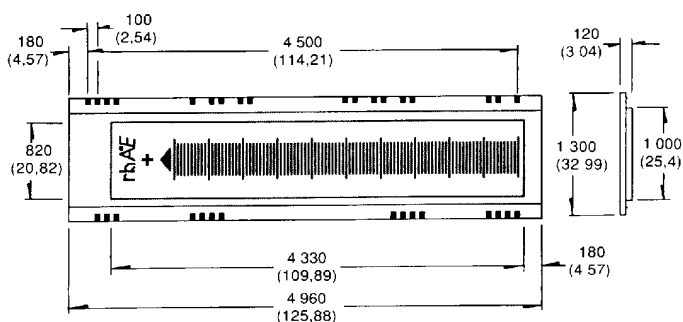
| Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | ROW 6   | 11      | COL 17  | 21      | COL 37  | 31      | N/C     | 41      | COL 12  |
| 2       | ROW 7   | 12      | COL 19  | 22      | COL 39  | 32      | COL 30  | 42      | COL 10  |
| 3       | COL 1   | 13      | COL 21  | 23      | ROW 5   | 33      | COL 28  | 43      | COL 8   |
| 4       | COL 3   | 14      | COL 23  | 24      | ROW 4   | 34      | COL 26  | 44      | COL 6   |
| 5       | COL 5   | 15      | COL 25  | 25      | ROW 3   | 35      | COL 24  | 45      | COL 4   |
| 6       | COL 7   | 16      | COL 27  | 26      | COL 40  | 36      | COL 22  | 46      | COL 2   |
| 7       | COL 9   | 17      | COL 29  | 27      | COL 38  | 37      | COL 20  | 47      | ROW 1   |
| 8       | COL 11  | 18      | COL 31  | 28      | COL 36  | 38      | COL 18  | 48      | ROW 2   |
| 9       | COL 13  | 19      | COL 33  | 29      | COL 34  | 39      | COL 16  | —       | —       |
| 10      | COL 15  | 20      | COL 35  | 30      | COL 32  | 40      | COL 14  | —       | —       |

MODEL 4285 (TN), 4265 (STN), Pins or Elastomeric



| Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment | Pin No. | Segment |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1       | ROW 6   | 19      | COL 33  | 37      | COL 69  | 55      | COL 64  | 73      | COL 28  |
| 2       | ROW 7   | 20      | COL 35  | 38      | COL 71  | 56      | COL 62  | 74      | COL 26  |
| 3       | COL 1   | 21      | COL 37  | 39      | COL 73  | 57      | COL 60  | 75      | COL 24  |
| 4       | COL 3   | 22      | COL 39  | 40      | COL 75  | 58      | COL 58  | 76      | COL 22  |
| 5       | COL 5   | 23      | COL 41  | 41      | COL 77  | 59      | COL 56  | 77      | COL 20  |
| 6       | COL 7   | 24      | COL 43  | 42      | COL 79  | 60      | COL 54  | 78      | COL 18  |
| 7       | COL 9   | 25      | COL 45  | 43      | ROW 5   | 61      | COL 52  | 79      | COL 16  |
| 8       | COL 11  | 26      | COL 47  | 44      | ROW 4   | 62      | COL 50  | 80      | COL 14  |
| 9       | COL 13  | 27      | COL 49  | 45      | ROW 3   | 63      | COL 48  | 81      | COL 12  |
| 10      | COL 15  | 28      | COL 51  | 46      | N/C     | 64      | COL 46  | 82      | COL 10  |
| 11      | COL 17  | 29      | COL 53  | 47      | COL 80  | 65      | COL 44  | 83      | COL 8   |
| 12      | COL 19  | 30      | COL 55  | 48      | COL 78  | 66      | COL 42  | 84      | COL 6   |
| 13      | COL 21  | 31      | COL 57  | 49      | COL 76  | 67      | COL 40  | 85      | COL 4   |
| 14      | COL 23  | 32      | COL 59  | 50      | COL 74  | 68      | COL 38  | 86      | COL 2   |
| 15      | COL 25  | 33      | COL 61  | 51      | COL 72  | 69      | COL 36  | 87      | ROW 1   |
| 16      | COL 27  | 34      | COL 63  | 52      | COL 70  | 70      | COL 34  | 88      | ROW 2   |
| 17      | COL 29  | 35      | COL 65  | 53      | COL 68  | 71      | COL 32  | —       | —       |
| 18      | COL 31  | 36      | COL 67  | 54      | COL 66  | 72      | COL 30  | —       | —       |

MODEL 4464, Elastomeric (INTERSIL 7182)



| CONT# | BP 1        | BP 2  | BP 3  | BP 4  | BP 5  | BP 6  | BP 7  | BP 8  | BP 9  | BP 10 | BP 11 | BP 12 | BP 13 | BP 14 |
|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | degree sign | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 2     | Rt of A     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 3     | Lt of A     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 4     | Lt of H     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 5     | K           | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 6     | M           | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 7     | plus sign   | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 8     | —           | Bar13 | Bar14 | Bar29 | Bar30 | Bar45 | Bar46 | Bar61 | Bar62 | Bar77 | Bar78 | Bar93 | Bar94 | —     |
| 9     | —           | Bar12 | Bar15 | Bar28 | Bar31 | Bar44 | Bar47 | Bar60 | Bar63 | Bar76 | Bar79 | Bar92 | Bar95 | —     |
| 10    | —           | Bar11 | Bar16 | Bar27 | Bar32 | Bar43 | Bar48 | Bar59 | Bar64 | Bar75 | Bar80 | Bar91 | Bar96 | —     |
| 11    | —           | Bar10 | Bar17 | Bar26 | Bar33 | Bar42 | Bar49 | Bar58 | Bar65 | Bar74 | Bar81 | Bar90 | Bar97 | —     |
| 12    | —           | Bar2  | Bar9  | Bar18 | Bar25 | Bar34 | Bar41 | Bar50 | Bar57 | Bar66 | Bar73 | Bar82 | Bar89 | —     |
| 13    | —           | Bar3  | Bar8  | Bar19 | Bar24 | Bar35 | Bar40 | Bar51 | Bar56 | Bar67 | Bar72 | Bar83 | Bar88 | —     |
| 14    | —           | Bar4  | Bar7  | Bar20 | Bar23 | Bar36 | Bar39 | Bar52 | Bar55 | Bar68 | Bar71 | Bar84 | Bar87 | —     |
| 15    | —           | Bar5  | Bar6  | Bar21 | Bar22 | Bar37 | Bar38 | Bar53 | Bar54 | Bar69 | Bar70 | Bar85 | Bar88 | —     |
| 16    | BP 14       | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 17    | BP 13       | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 18    | BP 12       | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 19    | BP 11       | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 20    | BP 10       | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 21    | BP 9        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 22    | BP 8        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 23    | BP 7        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 24    | BP 6        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 25    | BP 5        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 26    | BP 4        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 27    | BP 3        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 28    | BP 2        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 29    | BP 1        | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 30    | Lt of E     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 31    | Bot of E    | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 32    | Mid of E    | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |
| 33    | Top of E    | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     | —     |