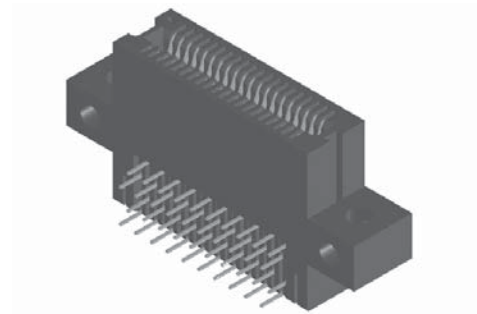
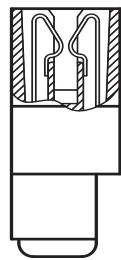
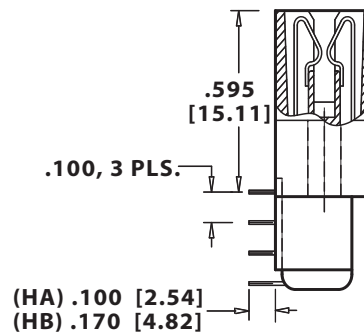
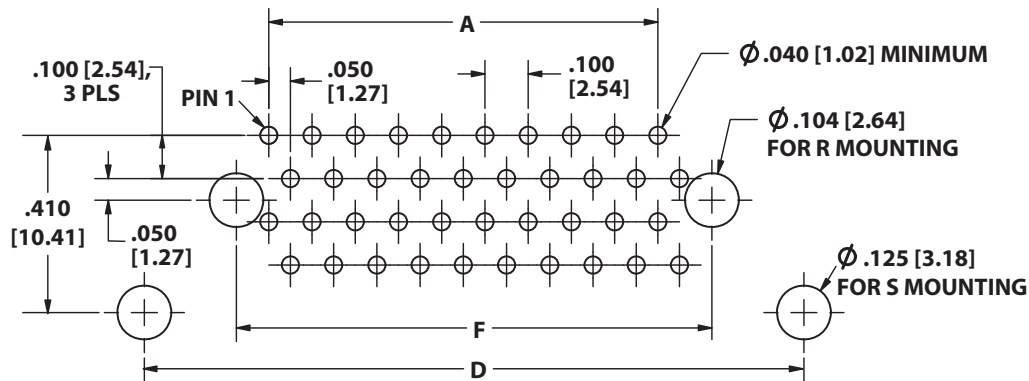
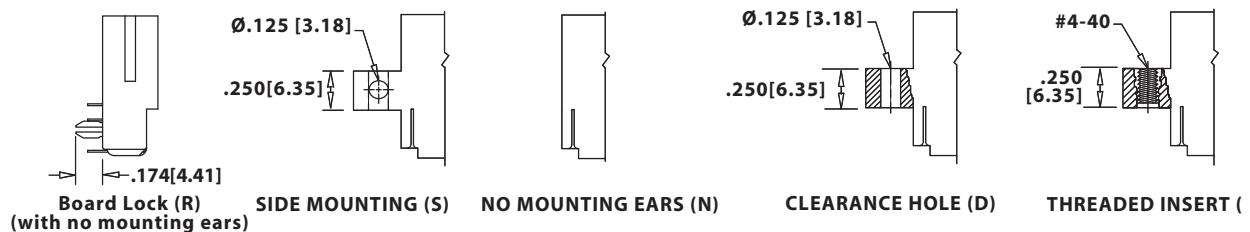


**.050" [1.27 mm] Contact Centers, .915" [23.23 mm] Insulator Height  
Right Angle****SPECIFICATIONS**

- Accommodates .062"  $\pm$  .008" [1.57  $\pm$  .20] PC board
- PPS or PA9T insulator
- Molded-in key available
- High reliability/high cycle hairpin bellows contact
- 1 amp current rating per contact
- 150 grams normal force minimum

**READOUT****DUAL (D)****TERMINATION TYPE****PCB LAYOUT****PCB LAYOUT, COMPONENT SIDE****MOUNTING STYLE**

**.050" [1.27 mm] Contact Centers, .915" [23.23 mm] Insulator Height  
Right Angle**



**PART NUMBER CODING**

**MATERIALS (INSULATOR/CONTACT)**

E = PBT/Phosphor Bronze  
H = PBT/Beryllium Copper  
G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper

**CONTACT FINISH - RoHS Compliant**

**All platings are Lead Free and have .000050" Nickel underplate**

**Contact Surface Termination**  
B = .000100" Gold .000100" Pure Tin, Matte  
C = .000030" Gold .000100" Pure Tin, Matte

**CONTACT CENTERS**

B = .050" [1.27mm]

**G B B 10 D HA S - Sxxx**

**MODIFICATION CODE** (Consult Factory)  
OMIT FOR STANDARD

**MOUNTING STYLE (Opposite Page)**

S = Side Mounting  
D = Flush Mounting  
N = No Mounting  
T = Flush Mounting With Threaded Insert  
R = Metal Board Lock

**TERMINATION TYPE (Opposite Page)**

HA = .100" Staggered Dip Solder, Right Angle  
HB = .170" Staggered Dip Solder, Right Angle

**READOUT (Opposite Page)**

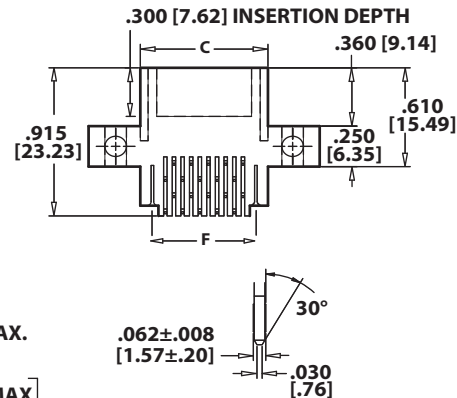
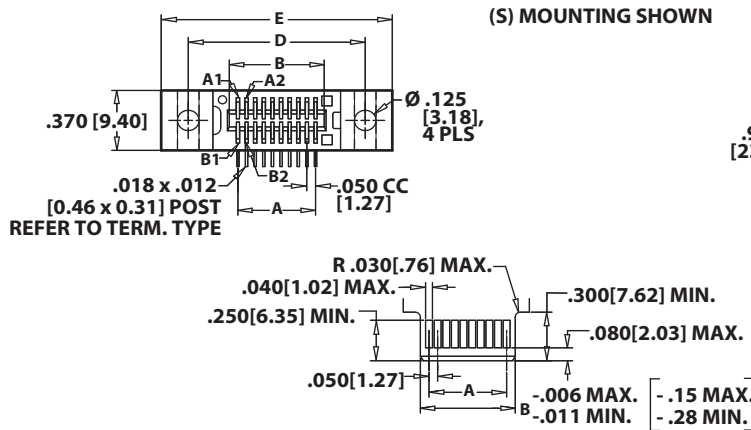
D = Dual

**NUMBER OF CONTACT POSITIONS**

See Chart Below

**DIMENSIONS**

Dimensions in [ ] are in millimeters, all others are in inches.



**CARD LAYOUT**

| POSITIONS/<br>CONTACTS | INCHES |       |       |                   |       |       | [MILLIMETERS] |        |        |                   |        |        |
|------------------------|--------|-------|-------|-------------------|-------|-------|---------------|--------|--------|-------------------|--------|--------|
|                        | A      | B     | C     | D                 | E     | F     | A             | B      | C      | D                 | E      | F      |
|                        | ±.005  | ±.005 | ±.015 | ±.010             | ±.020 | ±.010 | ±.13          | ±.13   | ±.38   | ±.25              | ±.51   | ±.25   |
| 05/10                  | 0.200  | 0.300 | 0.490 | 0.776             | 1.090 | 0.350 | 5.08          | 7.62   | 12.45  | 19.71             | 27.69  | 8.89   |
| 06/12                  | 0.250  | 0.350 | 0.540 | 0.826             | 1.140 | 0.400 | 6.35          | 8.89   | 13.72  | 20.98             | 28.96  | 10.16  |
| 09/18                  | 0.400  | 0.500 | 0.690 | 0.976             | 1.290 | 0.550 | 10.16         | 12.70  | 17.53  | 24.79             | 32.77  | 13.97  |
| 10/20                  | 0.450  | 0.550 | 0.740 | 1.026             | 1.340 | 0.600 | 11.43         | 13.97  | 18.80  | 26.06             | 34.04  | 15.24  |
| 13/26                  | 0.600  | 0.700 | 0.890 | 1.176             | 1.490 | 0.750 | 15.24         | 17.78  | 22.61  | 29.87             | 37.85  | 19.05  |
| 14/28                  | 0.650  | 0.750 | 0.940 | 1.226             | 1.540 | 0.800 | 16.51         | 19.05  | 23.88  | 31.14             | 39.12  | 20.32  |
| 15/30                  | 0.700  | 0.800 | 0.990 | 1.276             | 1.590 | 0.850 | 17.78         | 20.32  | 25.15  | 32.41             | 40.39  | 21.59  |
| 20/40                  | 0.950  | 1.050 | 1.240 | 1.526             | 1.840 | 1.100 | 24.13         | 26.67  | 31.50  | 38.76             | 46.74  | 27.94  |
| 22/44                  | 1.050  | 1.150 | 1.340 | 1.626             | 1.940 | 1.200 | 26.67         | 29.21  | 34.04  | 41.30             | 49.28  | 30.48  |
| 24/48                  | 1.150  | 1.250 | 1.440 | 1.726             | 2.040 | 1.300 | 29.21         | 31.75  | 36.58  | 43.84             | 51.82  | 33.02  |
| 25/50                  | 1.200  | 1.300 | 1.490 | 1.776             | 2.090 | 1.350 | 30.48         | 33.02  | 37.85  | 45.11             | 53.09  | 34.29  |
| 30/60                  | 1.450  | 1.550 | 1.740 | 2.026             | 2.340 | 1.600 | 36.83         | 39.37  | 44.20  | 51.46             | 59.44  | 40.64  |
| 34/68                  | 1.650  | 1.750 | 1.940 | 2.226             | 2.540 | 1.800 | 41.91         | 44.45  | 49.28  | 56.54             | 64.52  | 45.72  |
| 35/70                  | 1.700  | 1.800 | 1.990 | 2.276             | 2.590 | 1.850 | 43.18         | 45.72  | 50.55  | 57.81             | 65.79  | 46.99  |
| 40/80                  | 1.950  | 2.050 | 2.240 | 2.526             | 2.840 | 2.100 | 49.53         | 52.07  | 56.90  | 64.16             | 72.14  | 53.34  |
| 45/90                  | 2.200  | 2.300 | 2.490 | 2.776             | 3.090 | 2.350 | 55.88         | 58.42  | 63.25  | 70.51             | 78.49  | 59.69  |
| 50/100                 | 2.450  | 2.550 | 2.740 | 3.026             | 3.340 | 2.600 | 62.23         | 64.77  | 69.60  | 76.86             | 84.84  | 66.04  |
| 55/110                 | 2.700  | 2.800 | 2.990 | 3.276             | 3.590 | 2.850 | 68.58         | 71.12  | 75.95  | 83.21             | 91.19  | 72.39  |
| 60/120                 | 2.950  | 3.050 | 3.240 | 3.526             | 3.840 | 3.100 | 74.93         | 77.47  | 82.30  | 89.56             | 97.54  | 78.74  |
| 64/128                 | 3.150  | 3.250 | 3.440 | 3.726             | 4.040 | 3.300 | 80.01         | 82.55  | 87.38  | 94.64             | 102.62 | 83.82  |
| 65/130                 | 3.200  | 3.300 | 3.490 | 3.776             | 4.090 | 3.350 | 81.28         | 83.82  | 88.65  | 95.91             | 103.89 | 85.09  |
| 66/132                 | 3.250  | 3.350 | 3.540 | 3.826             | 4.140 | 3.400 | 82.55         | 85.09  | 89.92  | 97.18             | 105.16 | 86.36  |
| 70/140                 | 3.450  | 3.550 | 3.740 | 4.026             | 4.340 | 3.600 | 87.63         | 90.17  | 95.00  | 102.26            | 110.24 | 91.44  |
| 75/150                 | 3.700  | 3.800 | 3.990 | 4.276             | 4.590 | 3.850 | 93.98         | 96.52  | 101.35 | 108.61            | 116.59 | 97.79  |
| 80/160                 | 3.950  | 4.050 | 4.240 | 4.526             | 4.840 | 4.100 | 100.33        | 102.87 | 107.70 | 114.96            | 122.94 | 104.14 |
| 85/170                 | 4.200  | 4.300 | 4.490 | 4.776             | 5.090 | 4.350 | 106.68        | 109.22 | 114.05 | 121.31            | 129.29 | 110.49 |
| 90/180                 | 4.450  | 4.550 | 4.740 | 5.026             | 5.340 | 4.600 | 113.03        | 115.57 | 120.40 | 127.66            | 135.64 | 116.84 |
| 95/190                 | 4.700  | 4.800 | 4.990 | 5.276             | 5.590 | 4.850 | 119.38        | 121.92 | 126.75 | 134.01            | 141.99 | 123.19 |
| 100/200                | 4.950  | 5.050 | 5.240 | 5.526             | 5.840 | 5.100 | 125.73        | 128.27 | 133.10 | 140.36            | 148.34 | 129.54 |
| 105/210                | 5.200  | 5.300 | 5.490 | 5.776             | 6.090 | 5.350 | 132.08        | 134.62 | 139.45 | 146.71            | 154.69 | 135.89 |
| 108/216                | 5.350  | 5.450 | 5.640 | 5.926             | 6.240 | 5.500 | 135.89        | 138.43 | 143.26 | 150.52            | 158.50 | 139.70 |
| 110/220                | 5.450  | 5.550 | 5.740 | 6.026             | 6.340 | 5.600 | 138.43        | 140.97 | 145.80 | 153.06            | 161.04 | 142.24 |
| 120/240                | 5.950  | 6.050 | 6.240 | 'N' Mounting Only |       | 6.100 | 151.13        | 153.67 | 158.50 | 'N' Mounting Only |        | 154.94 |