



# High Density Card Edge

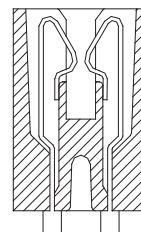
# SULLINS

**1.00 mm [.039"] Contact Centers, 15.49 mm [.610"] Insulator Height,  
Dip Solder/Card Extender/SMT**

## SPECIFICATIONS

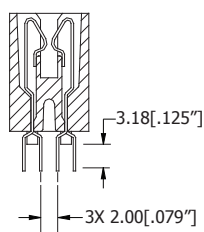
- Accommodates 1.57 mm  $\pm$  0.20 mm [.062"  $\pm$  .008"] PC board
- PPS or PA9T insulator
- Molded-in key available
- 1 Amp current rating per contact for contacts fully energized
- Highly reliable high cycle hairpin bellow contacts
- UL Flammability Rating: 94V-0

## READOUT

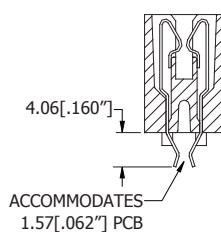


**DUAL (D)**

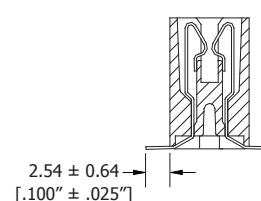
## TERMINATION TYPE



**STAGGERED DIP SOLDER  
(HH)**

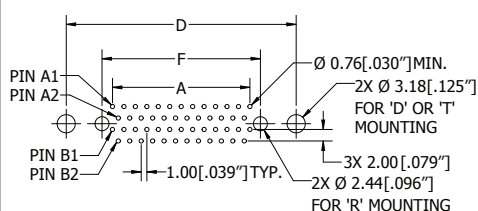


**CARD EXTENDER  
(HR)**

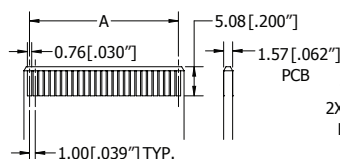


**SURFACE MOUNT  
(HF)**

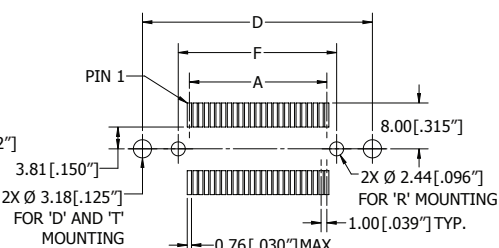
## PCB LAYOUT



**STAGGERED DIP SOLDER  
(HH)**

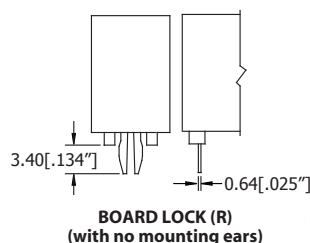


**CARD EXTENDER  
(HR)**

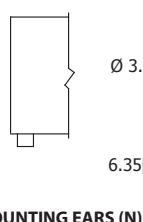


**SURFACE MOUNT  
(HF)**

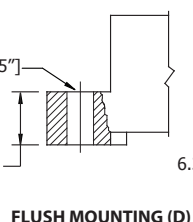
## MOUNTING STYLE



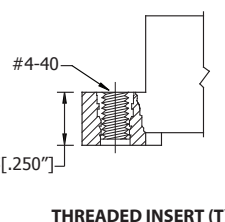
**BOARD LOCK (R)  
(with no mounting ears)**



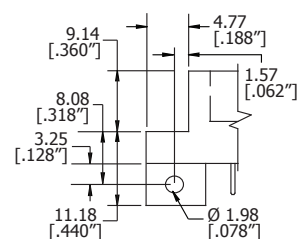
**NO MOUNTING EARS (N)**



**FLUSH MOUNTING (D)**



**THREADED INSERT (T)**



**STRADDLE MOUNT (Q)**



#### PART NUMBER OPTIONS

##### MATERIALS (INSULATOR/CONTACT)

G = PA9T/Phosphor Bronze  
R = PPS/Phosphor Bronze  
J = PA9T/Beryllium Copper  
A = PPS/Beryllium Copper  
Refer to Page 7 for Operating/Processing Temperatures

##### CONTACT FINISH - RoHS Compliant

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

##### Contact Surface

B = .000010" Gold  
C = .000030" Gold

##### Termination

.000100" Pure Tin, Matte  
.000100" Pure Tin, Matte

##### CONTACT CENTERS

E = 1.00 mm [.039"]

G B E 50 D HH D - Sxxx

##### MODIFICATION CODE (Consult Factory)

OMIT FOR STANDARD

##### MOUNTING STYLE (Opposite Page)

D = Flush Mounting  
N = No Mounting  
R = Metal Board Locks  
(HH & HF Termination Only)  
T = Flush Mounting, #4-40 Threaded Insert  
Q = Straddle Mount (HR Termination Only)

##### TERMINATION TYPE (Opposite Page)

HH = Staggered Dip Solder  
HR = Card Extender  
HF = Surface Mount

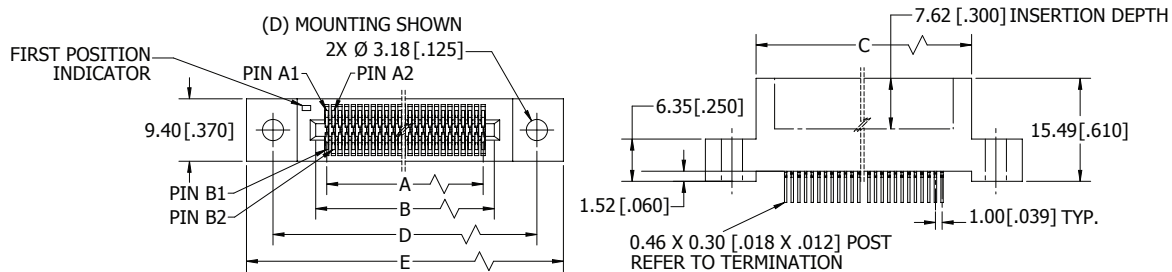
##### READOUT (Opposite Page)

D = Dual

##### NUMBER OF CONTACT POSITIONS

See Chart Below

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



| POSITIONS/<br>CONTACTS | MILLIMETERS |        |        |        |        |        | INCHES |        |        |        |        |        |
|------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                        | A±0.13      | B±0.13 | C±0.38 | D±0.25 | E±0.51 | F±0.25 | A±.005 | B±.005 | C±.015 | D±.010 | E±.020 | F±.010 |
| 02/04*                 | 1.00        | 4.32   | 9.89   | 17.15  | 25.13  | 4.66   | 0.039  | 0.170  | 0.389  | 0.675  | 0.989  | 0.183  |
| 03/06*                 | 2.00        | 5.32   | 10.89  | 18.15  | 26.13  | 5.66   | 0.079  | 0.210  | 0.429  | 0.715  | 1.029  | 0.223  |
| 04/08*                 | 3.00        | 6.32   | 11.89  | 19.15  | 27.13  | 6.66   | 0.118  | 0.249  | 0.468  | 0.754  | 1.068  | 0.262  |
| 05/10                  | 4.00        | 7.32   | 12.89  | 20.15  | 28.13  | 7.66   | 0.157  | 0.288  | 0.507  | 0.793  | 1.107  | 0.301  |
| 06/12*                 | 5.00        | 8.32   | 13.89  | 21.15  | 29.13  | 8.66   | 0.197  | 0.328  | 0.547  | 0.833  | 1.147  | 0.341  |
| 07/14*                 | 6.00        | 9.32   | 14.89  | 22.15  | 30.13  | 9.66   | 0.236  | 0.367  | 0.586  | 0.872  | 1.186  | 0.380  |
| 08/16*                 | 7.00        | 10.32  | 15.89  | 23.15  | 31.13  | 10.66  | 0.276  | 0.407  | 0.626  | 0.912  | 1.226  | 0.420  |
| 09/18*                 | 8.00        | 11.32  | 16.89  | 24.15  | 32.13  | 11.66  | 0.315  | 0.446  | 0.665  | 0.951  | 1.265  | 0.459  |
| 10/20                  | 9.00        | 12.32  | 17.89  | 25.15  | 33.13  | 12.66  | 0.354  | 0.485  | 0.704  | 0.990  | 1.304  | 0.498  |
| 11/22*                 | 10.00       | 13.32  | 18.89  | 26.15  | 34.13  | 13.66  | 0.394  | 0.525  | 0.744  | 1.030  | 1.344  | 0.538  |
| 12/24                  | 11.00       | 14.32  | 19.89  | 27.15  | 35.13  | 14.66  | 0.433  | 0.564  | 0.783  | 1.069  | 1.383  | 0.577  |
| 13/26*                 | 12.00       | 15.32  | 20.89  | 28.15  | 36.13  | 15.66  | 0.472  | 0.603  | 0.822  | 1.108  | 1.422  | 0.616  |
| 14/28*                 | 13.00       | 16.32  | 21.89  | 29.15  | 37.13  | 16.66  | 0.512  | 0.643  | 0.862  | 1.148  | 1.462  | 0.656  |
| 15/30                  | 14.00       | 17.32  | 22.89  | 30.15  | 38.13  | 17.66  | 0.551  | 0.682  | 0.901  | 1.187  | 1.501  | 0.695  |
| 16/32                  | 15.00       | 18.32  | 23.89  | 31.15  | 39.13  | 18.66  | 0.591  | 0.722  | 0.941  | 1.227  | 1.541  | 0.735  |
| 17/34*                 | 16.00       | 19.32  | 24.89  | 32.15  | 40.13  | 19.66  | 0.630  | 0.761  | 0.980  | 1.266  | 1.580  | 0.774  |
| 18/36*                 | 17.00       | 20.32  | 25.89  | 33.15  | 41.13  | 20.66  | 0.669  | 0.800  | 1.019  | 1.305  | 1.619  | 0.813  |
| 19/38*                 | 18.00       | 21.32  | 26.89  | 34.15  | 42.13  | 21.66  | 0.709  | 0.840  | 1.059  | 1.345  | 1.659  | 0.853  |
| 20/40                  | 19.00       | 22.32  | 27.89  | 35.15  | 43.13  | 22.66  | 0.748  | 0.879  | 1.098  | 1.384  | 1.698  | 0.892  |
| 21/42*                 | 20.00       | 23.32  | 28.89  | 36.15  | 44.13  | 23.66  | 0.787  | 0.918  | 1.137  | 1.423  | 1.737  | 0.931  |
| 22/44*                 | 21.00       | 24.32  | 29.89  | 37.15  | 45.13  | 24.66  | 0.827  | 0.958  | 1.177  | 1.463  | 1.777  | 0.971  |
| 23/46*                 | 22.00       | 25.32  | 30.89  | 38.15  | 46.13  | 25.66  | 0.866  | 0.997  | 1.216  | 1.502  | 1.816  | 1.010  |
| 24/48*                 | 23.00       | 26.32  | 31.89  | 39.15  | 47.13  | 26.66  | 0.906  | 1.037  | 1.256  | 1.542  | 1.856  | 1.050  |
| 25/50                  | 24.00       | 27.32  | 32.89  | 40.15  | 48.13  | 27.66  | 0.945  | 1.076  | 1.295  | 1.581  | 1.895  | 1.089  |
| 26/52*                 | 25.00       | 28.32  | 33.89  | 41.15  | 49.13  | 28.66  | 0.984  | 1.115  | 1.334  | 1.620  | 1.934  | 1.128  |
| 27/54*                 | 26.00       | 29.32  | 34.89  | 42.15  | 50.13  | 29.66  | 1.024  | 1.155  | 1.374  | 1.660  | 1.974  | 1.168  |
| 28/56*                 | 27.00       | 30.32  | 35.89  | 43.15  | 51.13  | 30.66  | 1.063  | 1.194  | 1.413  | 1.699  | 2.013  | 1.207  |
| 29/58*                 | 28.00       | 31.32  | 36.89  | 44.15  | 52.13  | 31.66  | 1.102  | 1.233  | 1.452  | 1.738  | 2.052  | 1.246  |
| 30/60                  | 29.00       | 32.32  | 37.89  | 45.15  | 53.13  | 32.66  | 1.142  | 1.273  | 1.492  | 1.778  | 2.092  | 1.286  |
| 31/62*                 | 30.00       | 33.32  | 38.89  | 46.15  | 54.13  | 33.66  | 1.181  | 1.312  | 1.531  | 1.817  | 2.131  | 1.325  |
| 32/64*                 | 31.00       | 34.32  | 39.89  | 47.15  | 55.13  | 34.66  | 1.220  | 1.351  | 1.570  | 1.856  | 2.170  | 1.364  |
| 33/66*                 | 32.00       | 35.32  | 40.89  | 48.15  | 56.13  | 35.66  | 1.260  | 1.391  | 1.610  | 1.896  | 2.210  | 1.404  |
| 34/68*                 | 33.00       | 36.32  | 41.89  | 49.15  | 57.13  | 36.66  | 1.299  | 1.430  | 1.649  | 1.935  | 2.249  | 1.443  |
| 35/70                  | 34.00       | 37.32  | 42.89  | 50.15  | 58.13  | 37.66  | 1.339  | 1.470  | 1.689  | 1.975  | 2.289  | 1.483  |
| 36/72*                 | 35.00       | 38.32  | 43.89  | 51.15  | 59.13  | 38.66  | 1.378  | 1.509  | 1.728  | 2.014  | 2.328  | 1.522  |
| 37/74*                 | 36.00       | 39.32  | 44.89  | 52.15  | 60.13  | 39.66  | 1.417  | 1.548  | 1.767  | 2.053  | 2.367  | 1.561  |
| 38/76*                 | 37.00       | 40.32  | 45.89  | 53.15  | 61.13  | 40.66  | 1.457  | 1.588  | 1.807  | 2.093  | 2.407  | 1.601  |
| 39/78*                 | 38.00       | 41.32  | 46.89  | 54.15  | 62.13  | 41.66  | 1.496  | 1.627  | 1.846  | 2.132  | 2.446  | 1.640  |
| 40/80                  | 39.00       | 42.32  | 47.89  | 55.15  | 63.13  | 42.66  | 1.535  | 1.666  | 1.885  | 2.171  | 2.485  | 1.679  |
| 41/82*                 | 40.00       | 43.32  | 48.89  | 56.15  | 64.13  | 43.66  | 1.575  | 1.706  | 1.925  | 2.211  | 2.525  | 1.719  |
| 42/84*                 | 41.00       | 44.32  | 49.89  | 57.15  | 65.13  | 44.66  | 1.614  | 1.745  | 1.964  | 2.250  | 2.564  | 1.758  |
| 43/86*                 | 42.00       | 45.32  | 50.89  | 58.15  | 66.13  | 45.66  | 1.654  | 1.785  | 2.004  | 2.290  | 2.604  | 1.798  |
| 44/88*                 | 43.00       | 46.32  | 51.89  | 59.15  | 67.13  | 46.66  | 1.693  | 1.824  | 2.043  | 2.329  | 2.643  | 1.837  |
| 45/90                  | 44.00       | 47.32  | 52.89  | 60.15  | 68.13  | 47.66  | 1.732  | 1.863  | 2.082  | 2.368  | 2.682  | 1.876  |
| 46/92*                 | 45.00       | 48.32  | 53.89  | 61.15  | 69.13  | 48.66  | 1.772  | 1.903  | 2.122  | 2.408  | 2.722  | 1.916  |
| 47/94*                 | 46.00       | 49.32  | 54.89  | 62.15  | 70.13  | 49.66  | 1.811  | 1.942  | 2.161  | 2.447  | 2.761  | 1.955  |
| 48/96*                 | 47.00       | 50.32  | 55.89  | 63.15  | 71.13  | 50.66  | 1.850  | 1.981  | 2.200  | 2.486  | 2.800  | 1.994  |
| 49/98*                 | 48.00       | 51.32  | 56.89  | 64.15  | 72.13  | 51.66  | 1.890  | 2.021  | 2.240  | 2.526  | 2.840  | 2.034  |
| 50/100                 | 49.00       | 52.32  | 57.89  | 65.15  | 73.13  | 52.66  | 1.929  | 2.060  | 2.279  | 2.565  | 2.879  | 2.073  |

\* Consult factory for availability.