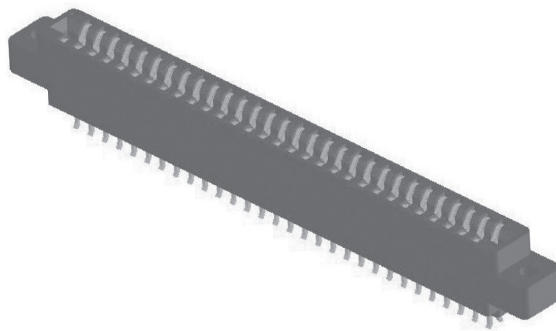




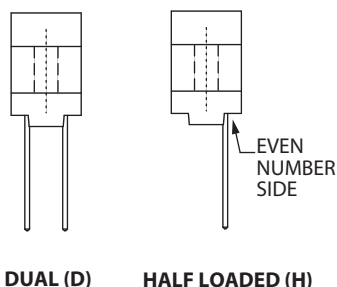
## .125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height, Dip Solder/Wire Wrap/Right Angle

### SPECIFICATIONS

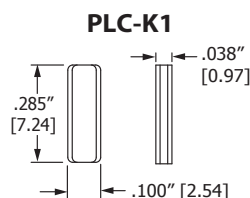
- Accommodates .062"  $\pm$  .008" [1.57 mm  $\pm$  0.20 mm] PC board  
(See following pages for .093"  $\pm$  .008" [2.36 mm  $\pm$  0.20 mm] and .125"  $\pm$  .008" [3.18 mm  $\pm$  0.20 mm] mating PCB)
- PBT, PPS or PA9T insulator
- Molded-in key available
- 3 Amps current rating for one contact energized
- 30 milli Ohms maximum at rated current
- UL Flammability Rating: 94V-0



### READOUT



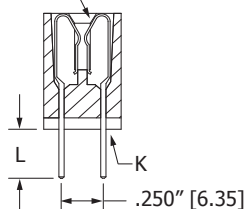
### POLARIZING KEY



KEY IN BETWEEN CONTACTS  
(ORDER SEPARATELY)

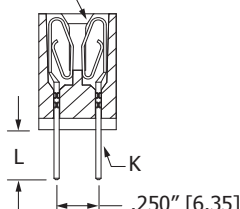
### TERMINATION TYPE

#### HAIRPIN BELLOWS

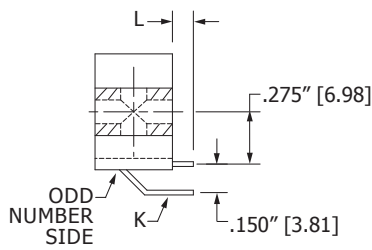


HAIRPIN BELLOWS  
(CS,CM,CW,CT)

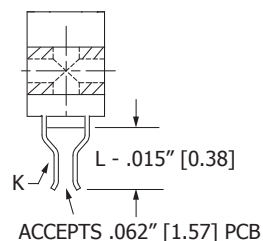
#### LOOP BELLOWS



LOOP BELLOWS  
(TK,RS,RM,CK)



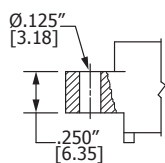
RIGHT ANGLE, DIP SOLDER  
(CA,CB,CC,TA,TB,TM)



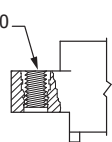
CARD EXTENDER  
REQUIRES -S288 MODIFICATION CODE  
(CS,CM,CT,RS,CK,TK,RM)

| HAIRPIN BELLOWS | LOOP BELLOWS | TERMINATION TYPE | POST CROSS SECTION K        | POST LENGTH L $\pm$ .025" [0.64] | FITS MIN. HOLE SIZE |
|-----------------|--------------|------------------|-----------------------------|----------------------------------|---------------------|
| CM              | TK, CK       | DIP SOLDER       | .025" [0.64] ROUND          | .190" [4.83]                     | .033" [0.84]        |
|                 | RS           | DIP SOLDER       | .025" [0.64] SQUARE         | .190" [4.83]                     | .040" [1.02]        |
|                 | RM           | WIRE WRAP        | .025" [0.64] SQUARE         | .560" [14.20]                    | .040" [1.02]        |
|                 | TA           | RIGHT ANGLE      | .025" [0.64] SQUARE         | .100" [2.54]                     | .043" [1.09]        |
|                 | TB           | RIGHT ANGLE      | .025" [0.64] SQUARE         | .180" [4.57]                     | .043" [1.09]        |
|                 | TM           | RIGHT ANGLE      | .025" [0.64] SQUARE         | .250" [6.35]                     | .043" [1.09]        |
| CW              |              | DIP SOLDER       | .015" X .025" [0.38 X 0.64] | .125" [3.18]                     | .035" [0.89]        |
| CT              |              | DIP SOLDER       | .015" X .025" [0.38 X 0.64] | .170" [4.32]                     | .035" [0.89]        |
| CS              |              | DIP SOLDER       | .025" [0.64] SQUARE         | .160" [4.06]                     | .040" [1.02]        |

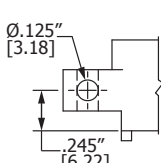
### MOUNTING STYLE



CLEARANCE HOLE (H)



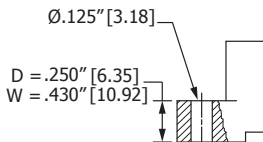
THREADED INSERT (I)



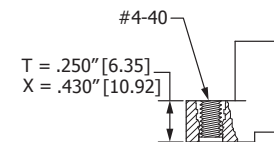
SIDE MOUNTING (S)



NO MOUNTING EARS (N)



FLUSH MOUNTING (D, W)



FLUSH MOUNTING WITH  
THREADED INSERT (T, X)

**.125" [3.18 mm] Contact Centers, .610" [15.49 mm] Insulator Height,  
Dip Solder/Wire Wrap/Right Angle**

## PART NUMBER OPTIONS

### MATERIALS (INSULATOR/CONTACT)

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

(Consult factory for other materials.)

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  
G = .000010" Gold  
Y = .000030" Gold  
**Contact Surface**  
S = .000010" Gold  
M = .000030" Gold  
E = .000100" Pure Tin. Matte

## Termination

.000100" Pure Tin, Matte  
.000100" Pure Tin, Matte  
.000005" Gold  
.000005" Gold

### Overall Plating

.000010" Gold  
.000010" Gold  
.000100" Pure Tin, Matte

## CONTACT CENTERS

$$A = .125'' [3.18 \text{ mm}]$$

### NUMBER OF CONTACT POSITIONS

See Chart Below

**READOUT (Opposite Page)**
$$D = D_{\text{Dual}}$$

H = Half Loaded

**E B A 50 D CM H - Sxxx**

– **MODIFICATION CODE** (Consult Factory)

OMIT FOR STANDARD

-S288 = Card Extender Accepts .062" [1.57 mm] PCB

– **MOUNTING STYLE** (Opposite Page)

H = Clearance Holes  
I = Threaded Inserts  
S = Side Mounting  
N = No Mounting  
W = Flush Mounting  
D = Flush Mounting  
X = Flush Mounting with Threaded Inserts  
T = Flush Mounting with Threaded Inserts

- **TERMINATION TYPE (Opposite Page)**

**Hairpin Bellows \*\***

**\*\*Available with B or C plating and Phosphor Bronze Only**

CS = .025" [0.64 mm] Square Dip Solder

CM = .025" [0.64 mm] Square Wire Wrap

CA, CB, CC = .025" [0.64 mm] Square Right Angle

CW,CT = .015" X .025" [0.38 mm X 0.64 mm] Dip Solder

### ***Loop Bellows***

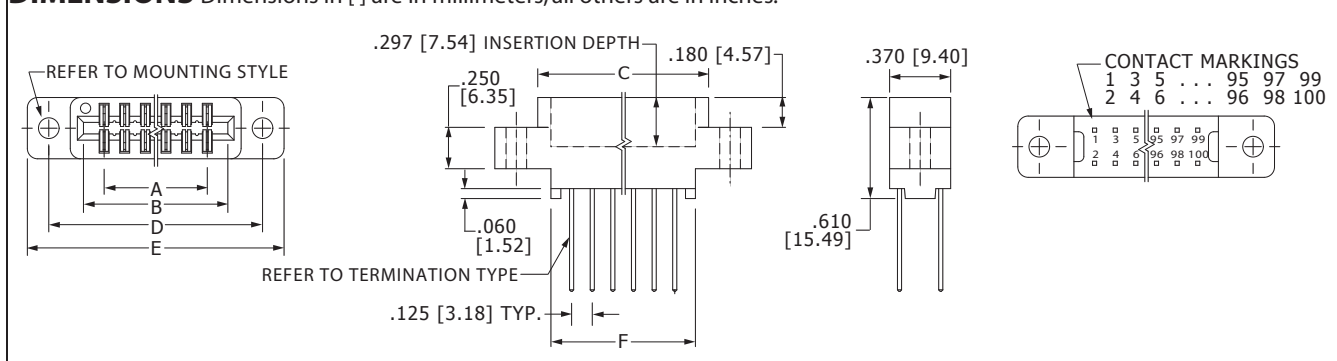
RS = .025" [0.64 mm] Square Dip Solder

CK,TK = .025" [0.64 mm] Round Dip Solder

RM = .025" [0.64 mm] Square Wire Wrap

TA,TB,TM = .025" [0.64 mm] Square Right Angle

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



Tolerances on non-critical dimensions may vary slightly due to shrinkage differential per insulator material; Consult factory.

| POSITIONS/<br>CONTACTS | INCHES |        |        |        |        |        | MILLIMETERS |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|-------------|--------|--------|--------|--------|--------|
|                        | A±.008 | B±.008 | C±.015 | D±.010 | E±.020 | F±.015 | A±0.20      | B±0.20 | C±0.38 | D±0.25 | E±0.51 | F±0.38 |
| 06/12                  | 0.625  | 0.875  | 1.035  | 1.295  | 1.555  | 0.875  | 15.88       | 22.23  | 26.29  | 32.89  | 39.50  | 22.23  |
| 10/20                  | 1.125  | 1.375  | 1.535  | 1.795  | 2.055  | 1.375  | 28.58       | 34.93  | 38.99  | 45.59  | 52.20  | 34.93  |
| 14/28                  | 1.625  | 1.875  | 2.035  | 2.295  | 2.555  | 1.875  | 41.28       | 47.63  | 51.69  | 58.29  | 64.90  | 47.63  |
| 15/30                  | 1.750  | 2.000  | 2.160  | 2.420  | 2.680  | 2.000  | 44.45       | 50.80  | 54.86  | 61.47  | 68.07  | 50.80  |
| 18/36                  | 2.125  | 2.375  | 2.535  | 2.795  | 3.055  | 2.375  | 53.98       | 60.33  | 64.39  | 70.99  | 77.60  | 60.33  |
| 22/44                  | 2.625  | 2.875  | 3.035  | 3.295  | 3.555  | 2.875  | 66.68       | 73.03  | 77.09  | 83.69  | 90.30  | 73.03  |
| 24/48                  | 2.875  | 3.125  | 3.285  | 3.545  | 3.805  | 3.125  | 73.03       | 79.38  | 83.44  | 90.04  | 96.65  | 79.38  |
| 25/50*                 | 3.000  | 3.250  | 3.410  | 3.670  | 3.930  | 3.250  | 76.20       | 82.55  | 86.61  | 93.22  | 99.82  | 82.55  |
| 28/56                  | 3.375  | 3.625  | 3.785  | 4.045  | 4.305  | 3.625  | 85.73       | 92.08  | 96.14  | 102.74 | 109.35 | 92.08  |
| 30/60                  | 3.625  | 3.875  | 4.035  | 4.295  | 4.555  | 3.875  | 92.08       | 98.43  | 102.49 | 109.09 | 115.70 | 98.43  |
| 31/62                  | 3.750  | 4.000  | 4.160  | 4.420  | 4.680  | 4.000  | 95.25       | 101.60 | 105.66 | 112.27 | 118.87 | 101.60 |
| 32/64                  | 3.875  | 4.125  | 4.285  | 4.545  | 4.805  | 4.125  | 98.43       | 104.78 | 108.84 | 115.44 | 122.05 | 104.78 |
| 35/70                  | 4.250  | 4.500  | 4.660  | 4.920  | 5.180  | 4.500  | 107.95      | 114.30 | 118.36 | 124.97 | 131.57 | 114.30 |
| 36/72                  | 4.375  | 4.625  | 4.785  | 5.045  | 5.305  | 4.625  | 111.13      | 117.48 | 121.54 | 128.14 | 134.75 | 117.48 |
| 40/80                  | 4.875  | 5.125  | 5.285  | 5.545  | 5.805  | 5.125  | 123.83      | 130.18 | 134.24 | 140.84 | 147.45 | 130.18 |
| 43/86                  | 5.250  | 5.500  | 5.660  | 5.920  | 6.180  | 5.500  | 133.35      | 139.70 | 143.76 | 150.37 | 156.97 | 139.70 |
| 44/88                  | 5.375  | 5.625  | 5.785  | 6.045  | 6.305  | 5.625  | 136.53      | 142.88 | 146.94 | 153.54 | 160.15 | 142.88 |
| 49/98                  | 6.000  | 6.250  | 6.410  | 6.670  | 6.930  | 6.250  | 152.40      | 158.75 | 162.81 | 169.42 | 176.02 | 158.75 |
| 50/100                 | 6.125  | 6.375  | 6.535  | 6.795  | 7.055  | 6.375  | 155.58      | 161.93 | 165.99 | 172.59 | 179.20 | 161.93 |

\* Consult factory for availability.