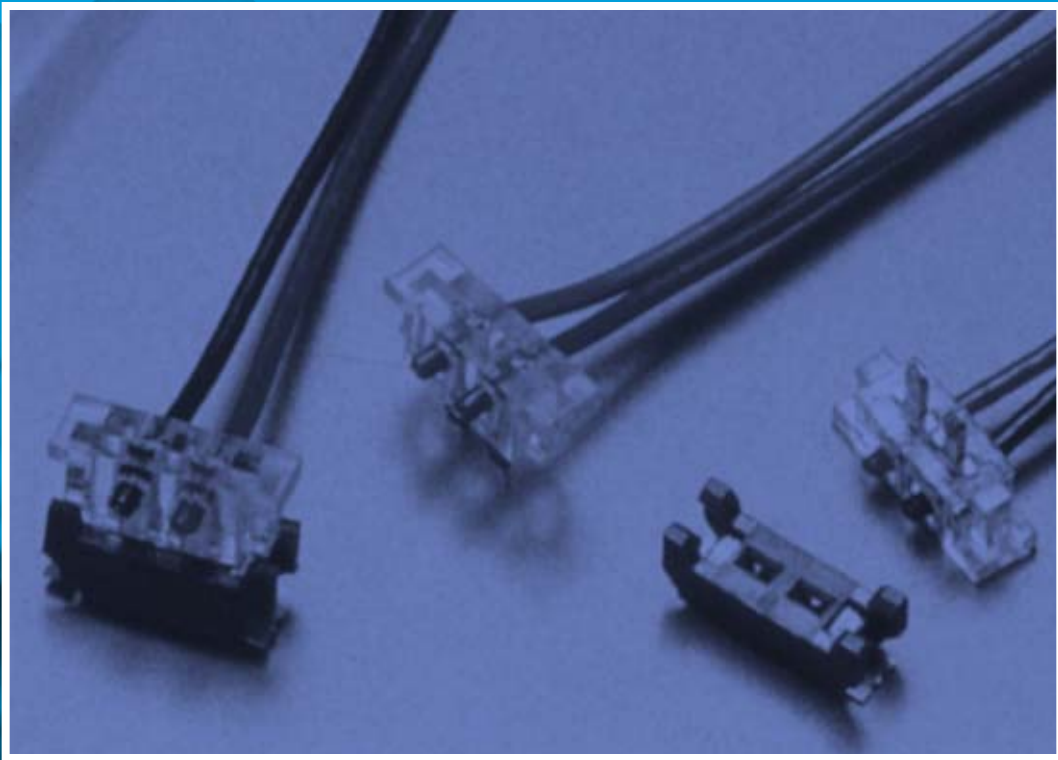




**ELCO**  
**Series 8005/8015**

# Series 8005



## 2 Position Miniature IDC Wire to Board Connector

Series 8005 is a super compact 2 pin Wire to Board connector designed for high density mounting. This is best suited for miniaturization of hand held devices including mobile phones, Notebook PC, PDA terminals, etc. The wire

to board applications include microphones, vibration motors, speakers and LEDs. The connector features a positive audible locking mechanism suitable for environments with high shock and vibration.

### SPECIFICATIONS

|                                 |               |
|---------------------------------|---------------|
| Number of Contact               | 2             |
| Contact Spacing                 | 1.27 mm       |
| Current Rating                  | 1 Amp. Max.   |
| Voltage Rating                  | 30V Max.      |
| Dielectric Withstanding Voltage | 500V rms/min. |
| Operating Temperature           | -55 to +85°C  |

### MATERIAL/FINISH

|               |          |                          |
|---------------|----------|--------------------------|
| Insulator     | Plug     | Nylon UL 94V-2           |
|               | Rec.     | Nylon UL 94V-0           |
| Contact       | Plug     | Phosphor Bronze          |
|               | Rec.     | Copper Alloy             |
| Strain Relief | Finish / | Gold over Nickel         |
|               |          | Phosphor Bronze/Tin Lead |

### HOW TO ORDER RECEPTACLE

|               |                      |                                                           |                       |                                                                   |
|---------------|----------------------|-----------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
| <b>24</b>     | <b>8005</b>          | <b>X02</b>                                                | <b>100</b>            | <b>867</b>                                                        |
| <b>Prefix</b> | <b>Series Number</b> | <b>Number of Contacts/Style</b>                           | <b>Variation Code</b> | <b>Finish Code</b>                                                |
| Tape & Reel   |                      | 002 = 2 Position Vertical<br>502 = 2 Position Right Angle | Receptacle Nylon      | Contact area<br>15 Micro-inches Gold<br>Tail area Gold flash over |

### HOW TO ORDER PLUG HARNESS

|               |                      |                                 |                                                  |                                      |
|---------------|----------------------|---------------------------------|--------------------------------------------------|--------------------------------------|
| <b>97</b>     | <b>8005</b>          | <b>002</b>                      | <b>XXX</b>                                       | <b>867</b>                           |
| <b>Prefix</b> | <b>Series Number</b> | <b>Number of Contacts/Style</b> | <b>Variation Code</b>                            | <b>Finish Code</b>                   |
| Plug Harness  |                      | 002 = 2 Position Harness        | See page 3 for specifications<br>needed to order | Contact area<br>15 Micro-inches Gold |

Contact Sales Office to order Harness Assembly or Tooling

Plug Individual Part Number for Harness.

Insulator: 61 8005 002 000 000 - AWG 32

Insulator: 61 8005 002 001 000 - AWG 30

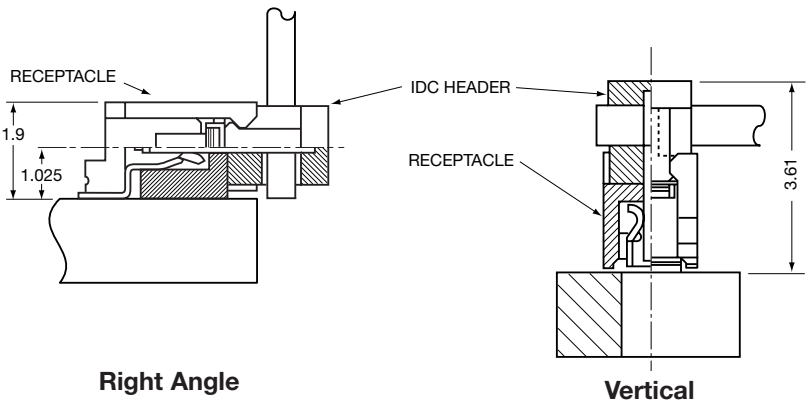
Ordering quantity 14 pieces per strip.

Contact: 71 8005 999 000 867 - AWG 32

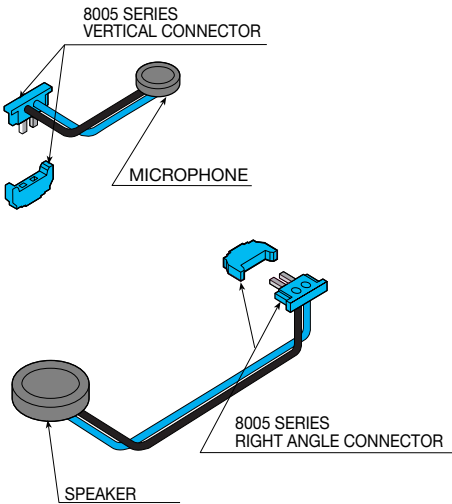
Contact: 71 8015 999 000 867 - AWG 30

Ordering quantity 100,000 pieces per reel.

### MATING CONDITION



### MOUNTING OPTIONS



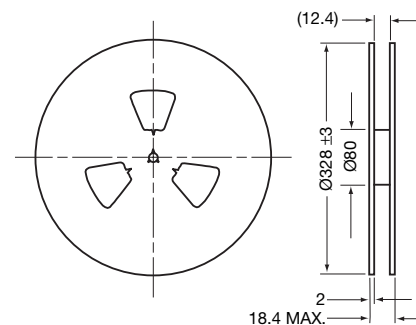
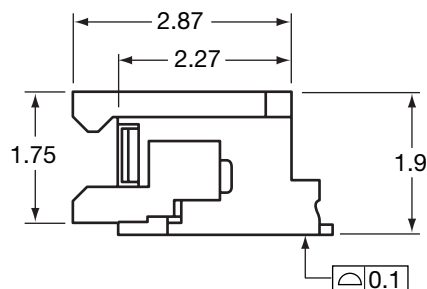
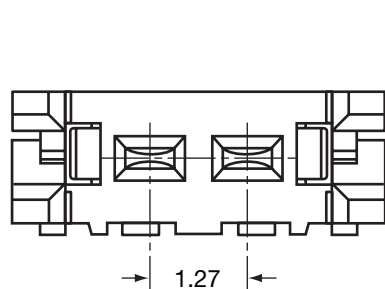
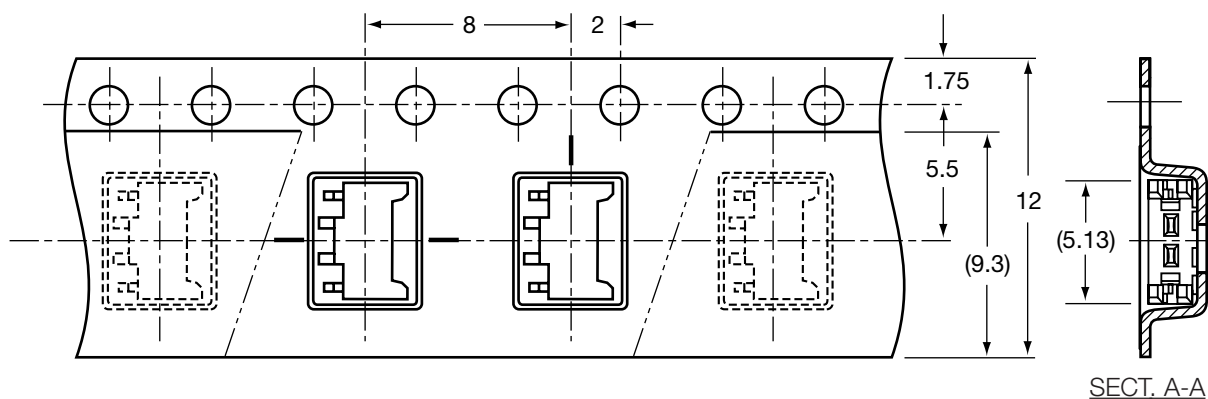
# Series 8005



## 2 Position Miniature IDC Wire to Board Connector

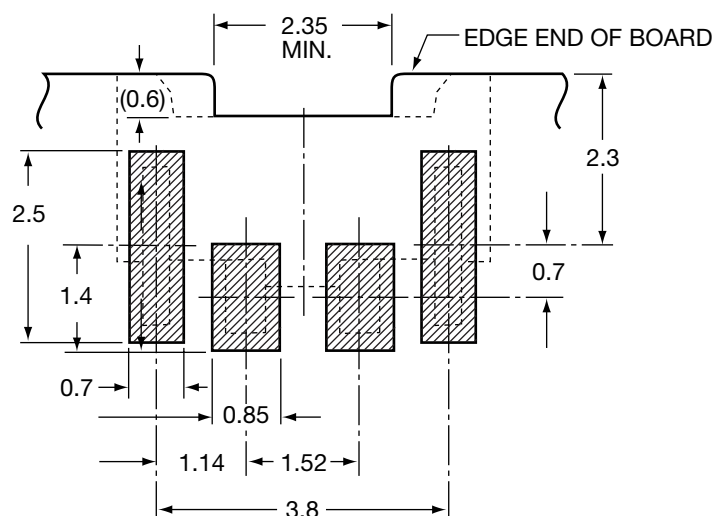
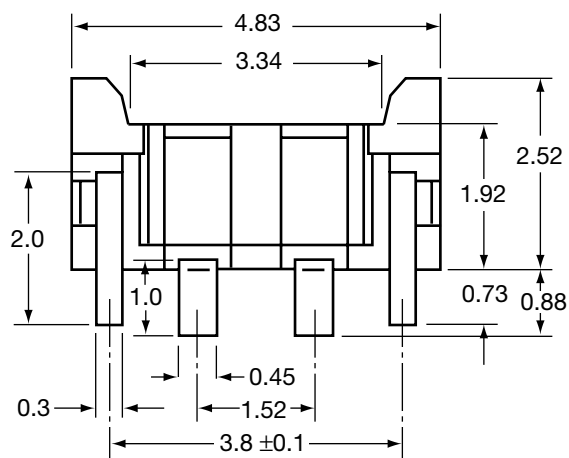
RECEPTACLE, RIGHT ANGLE

24 8005 502 100 867



REEL DIMENSIONS

Qty: 3000 pcs/reel



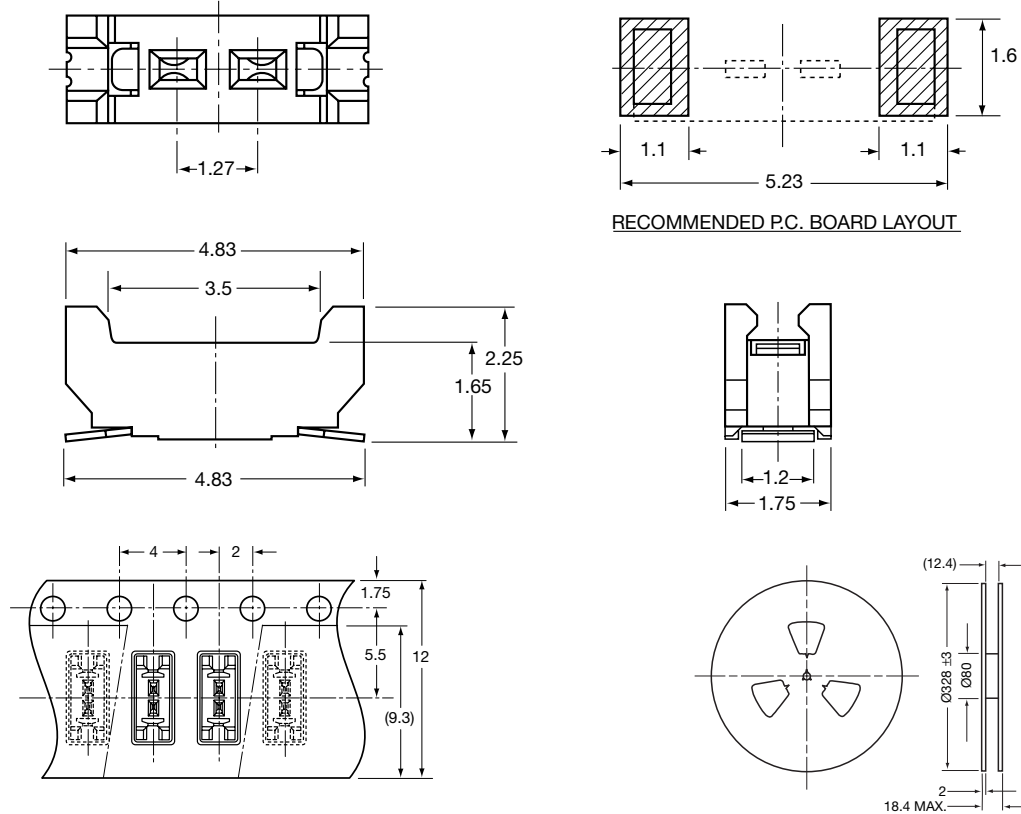
RECOMMENDED P.C. BOARD LAYOUT

# Series 8005



## 2 Position Miniature IDC Wire to Board Connector

### RECEPTACLE, VERTICAL 24 8005 002 100 867



RECOMMENDED P.C. BOARD LAYOUT

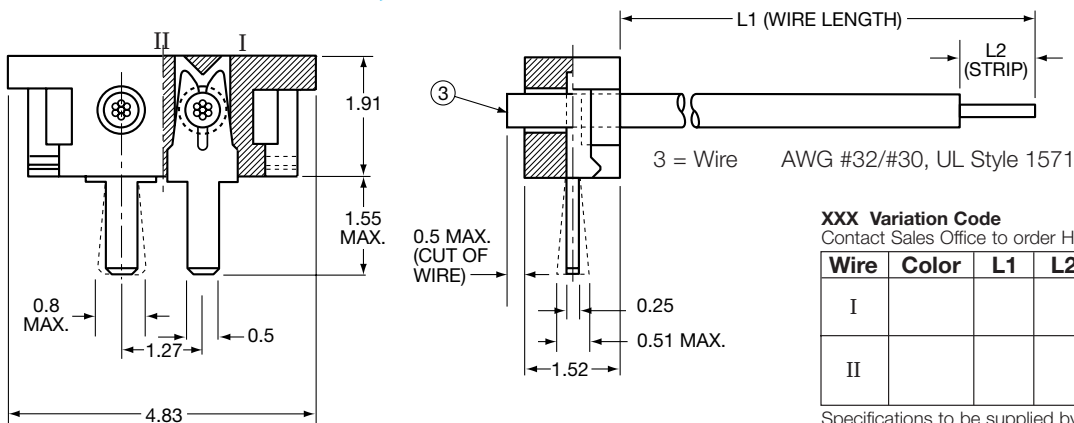
REEL DIMENSIONS

Qty: 6000 pcs/reel

### HOW TO ORDER PLUG HARNESS ASSEMBLY

| 97                     | 8005          | 002                                                  | XXX                                                      | 867                                                 |
|------------------------|---------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|
| Prefix<br>Plug Harness | Series Number | Number of Contacts/Style<br>002 = 2 Position Harness | Variation Code<br>Determined by<br>wire details as below | Finish Code<br>Contact area<br>15 Micro-inches Gold |

### PLUG, HARNESS ASSEMBLY



XXX Variation Code  
Contact Sales Office to order Harness Assembly

| Wire | Color | L1 | L2 | AWG |
|------|-------|----|----|-----|
| I    |       |    |    |     |
| II   |       |    |    |     |

Specifications to be supplied by customer.  
32 AWG is the preferred option.  
Wire size must be same as I and II.

# Series 8015

## 2 Position Miniature IDC Wire to Board with Polarization Connector



Series 8015 is a super compact 2 pin Wire to Board connector designed for high density mounting. This is best suited for miniaturization of hand held devices including mobile phones, Notebook PC, PDA terminals, etc. The wire to board applications include microphones, vibration

motors, speakers and LEDs. The connector features a positive audible locking mechanism suitable for environments with high shock and vibration. The connector is physically polarized to assist mating. It is also offered in 3 different colors for additional color polarization.

### SPECIFICATIONS

|                                 |               |
|---------------------------------|---------------|
| Number of Contact               | 2             |
| Contact Spacing                 | 1.27 mm       |
| Current Rating                  | 1 Amp./pin    |
| Voltage Rating                  | 30V           |
| Dielectric Withstanding Voltage | 500V rms/min. |
| Operating Temperature           | -55 to +80°C  |

### MATERIAL/FINISH

|           |          |                  |
|-----------|----------|------------------|
| Insulator | Plug     | Nylon UL 94V-0   |
|           | Rec.     | Nylon UL 94V-0   |
| Contact   | Plug     | Phosphor Bronze  |
|           | Rec.     | Copper Alloy     |
|           | Finish / | Gold over Nickel |

### HOW TO ORDER RECEPTACLE

|                              |                      |                                                              |                                                                                                                       |                                                      |
|------------------------------|----------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>24</b>                    | <b>8015</b>          | <b>002</b>                                                   | <b>X01</b>                                                                                                            | <b>894</b>                                           |
| <b>Prefix</b><br>Tape & Reel | <b>Series Number</b> | <b>Number of Contacts/Style</b><br>002 = 2 Position Vertical | <b>Variation Code</b><br>001 = Receptacle Color White<br>101 = Receptacle Color Black<br>401 = Receptacle Color Brown | <b>Finish Code</b><br>Gold flash over Nickel Plating |

### HOW TO ORDER PLUG HARNESS

|                               |                      |                                                             |                                                                        |                                                      |
|-------------------------------|----------------------|-------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------|
| <b>97</b>                     | <b>8015</b>          | <b>002</b>                                                  | <b>XXX</b>                                                             | <b>894</b>                                           |
| <b>Prefix</b><br>Plug Harness | <b>Series Number</b> | <b>Number of Contacts/Style</b><br>002 = 2 Position Harness | <b>Variation Code</b><br>See page 5 for specifications needed to order | <b>Finish Code</b><br>Gold flash over Nickel Plating |

Contact Sales Office to order Harness Assembly or Tooling

Plug Individual Part Number for Harness.

Insulator: 61 8015 002 000 00X

Color Code (Option) \_\_\_\_\_

0 = Standard = Natural (White)

1 = Black

4 = Brown

Ordering quantity 14 pieces per strip.

Contact: 71 8015 999 000 894

Ordering quantity 100,000 pieces per reel.

# Series 8015

## 2 Position Miniature IDC Wire to Board with Polarization Connector



### MATING CONDITION

#### CORRECT MATING

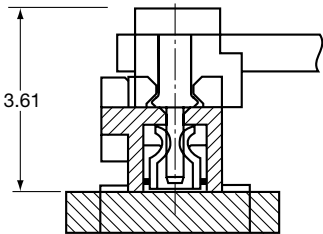


Figure A

#### INCORRECT MATING

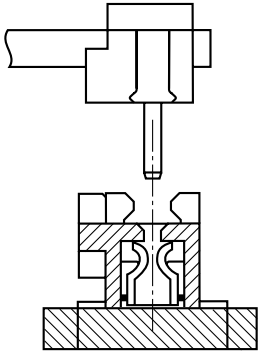


Figure B

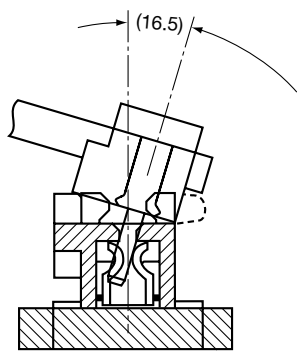
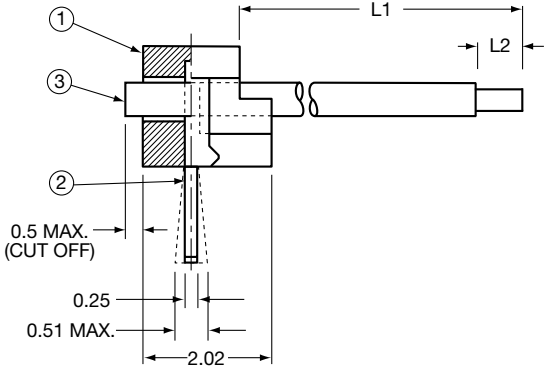
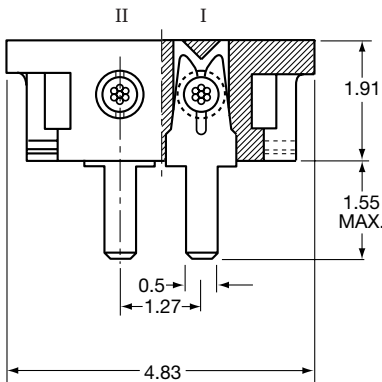


Figure C

Figure A shows if polarization of harness to receptacle is correct then mating is achieved.  
Figure B/C shows if polarization of harness to receptacle is incorrect then full mating is not possible.  
Polarization key reject to mate until the locking finger has been broken

### HOW TO ORDER PLUG HARNESS ASSEMBLY

|                               |                      |                                                             |                                                                 |                                                         |
|-------------------------------|----------------------|-------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| <b>97</b>                     | <b>8015</b>          | <b>002</b>                                                  | <b>XXX</b>                                                      | <b>894</b>                                              |
| <b>Prefix</b><br>Plug Harness | <b>Series Number</b> | <b>Number of Contacts/Style</b><br>002 = 2 Position Harness | <b>Variation Code</b><br>Determined by<br>wire details as below | <b>Finish Code</b><br>Gold flash over<br>Nickel plating |



**XXX Variation Code**  
Contact Sales Office to order Harness Assembly

| Wire | Color | L1 | L2 |
|------|-------|----|----|
| I    |       |    |    |
| II   |       |    |    |

Specifications to be supplied by customer.  
Wire size must be same as I and II.

1 = Insulator 61 8015 002 000 00X  
X = Color Code (Option)  
0 = Standard = Natural (White)  
1 = Black  
4 = Brown  
2 = Contact 71 8015 999 000 894  
3 = Wire AWG #30, UL Style 1571

# Series 8015

## 2 Position Miniature IDC Wire to Board with Polarization Connector



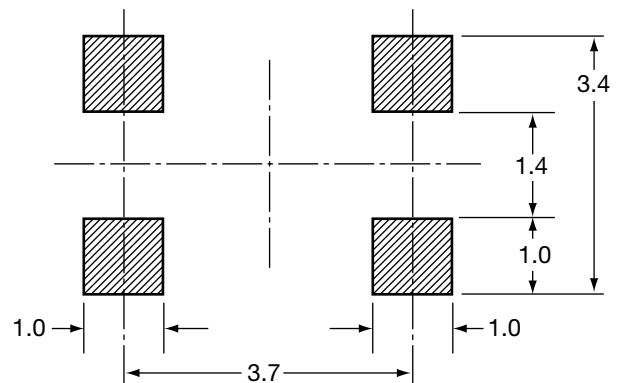
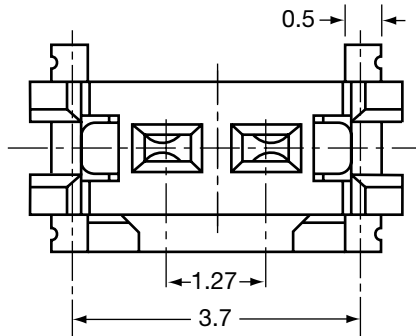
RECEPTACLE, VERTICAL 24 8015 002 X01 894

X = Color Code

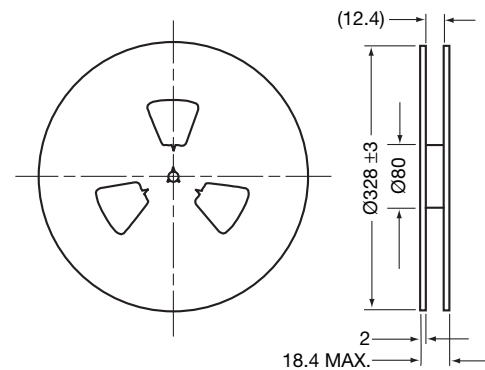
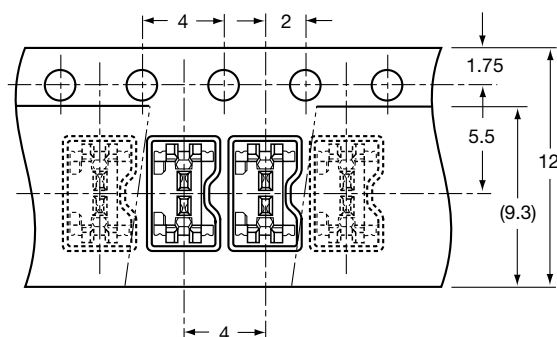
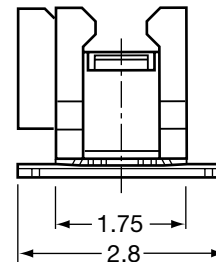
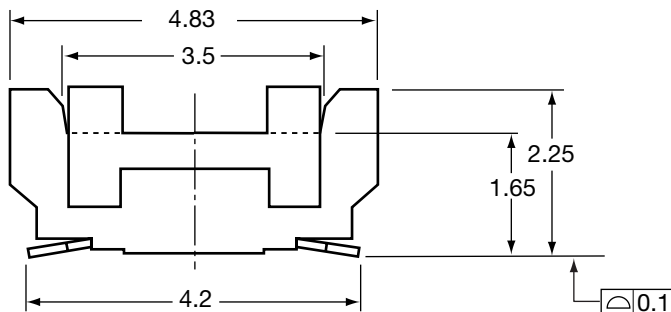
0 = White

1 = Black

4 = Brown



RECOMMENDED P.C. BOARD LAYOUT



REEL DIMENSIONS

Qty: 6000 pcs/reel

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**Kyocera, Japan - KDP**  
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**Contact:**



<http://www.avxcorp.com>

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