

# Low Profile Single Contact-70-9155

## General Description



Designers for ruggedized connectors to meet harsh environments continue to look for new products which will reduce size and cost without jeopardizing performance. The new Ultra-Low Profile (ULP) compression contact from KYOCERA AVX surface mounts to a PCB and provides a reliable compression connection to the mating board, even under extreme shock and vibration applications. With over 20 years of 1-Piece compression contact experience, this innovative contact offers full connector performance functionality at the individual contact level. Thus, allowing single contacts to be placed in any location or position on a PCB.

The high force beryllium copper contact is gold plated to maximize reliability and signal integrity. The current offering has two contacts with nominal heights of 1.0mm and 1.5mm. Add in the "Z" axis tolerance range and the compressed height covers 0.75mm up to 1.75mm. The contacts are supplied in tape and reel for easy SMT placement.

### APPLICATIONS

- Industrial/Ruggedized handheld or portable devices
- BTB connection for any traditional power or signal application
- Ground connections between PCB's or housings

### FEATURES AND BENEFITS

- Reliable gold plated Beryllium Copper contacts for high cycle life and signal integrity up to 1000 cycles
- Tape and reel packaged for automated SMT placement
- Sweeping beam design for pluggable/module applications
- Three gold plating options to match end product environmental or expected life requirements

### ELECTRICAL

- Current Rating: 3 Amps
- Voltage Rating: UL 300V  
Based on placement distance

### ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C

### MECHANICAL

- Contact Material: Beryllium Copper
- Contact Plating: Gold over Nickel
- Durability: 50, 500 and 1000 cycles

### HOW TO ORDER



#### 61X

#### Contact Description

| Code | Nominal Operating Height | Contact Operating Height Range |
|------|--------------------------|--------------------------------|
| 610  | 1.00mm                   | 0.75mm to 1.25mm               |
| 615  | 1.50mm                   | 1.25mm to 1.75mm               |

#### 00X

#### Contact Description

| Code | Gold Thickness | Description                                       | Availability  |
|------|----------------|---|---------------|
| 004  | 0.1µm          | Nickel under Plate, Gold on Nose Tin on Remainder | Standard      |
| 006  | 0.4µm          | Nickel under Plate, Gold on Nose Tin on Remainder | Special Order |
| 008  | 0.8µm          | Nickel under Plate, Gold on Nose Tin on Remainder | Special Order |

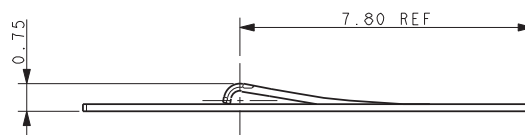
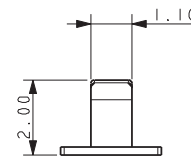
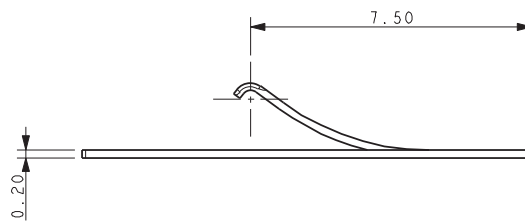
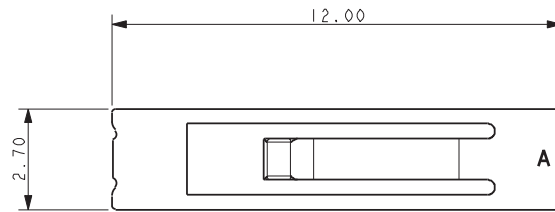
Certification: UL File #E90723



# Low Profile Single Contact-70-9155

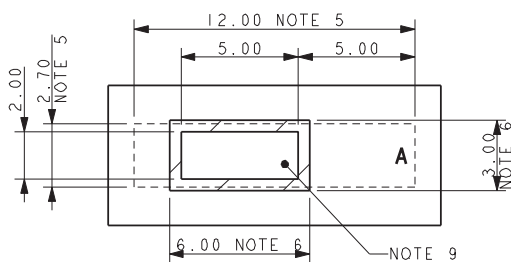
Height 1.00mm

## 70-9155-001-610-006 NOMINAL WORKING HEIGHT 1.00MM



**FULLY DEFLECTED CONTACT**

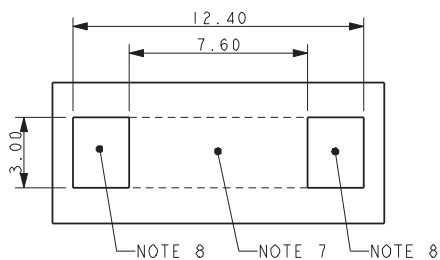
### SUGGESTED MATING PCB LAYOUT



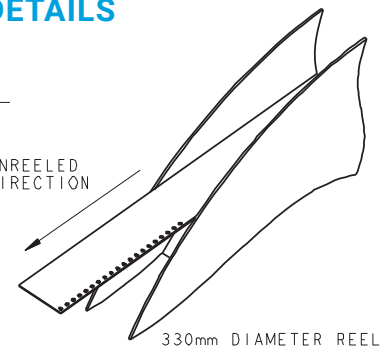
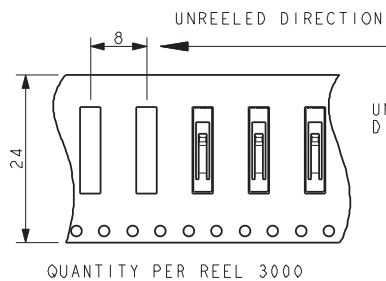
#### NOTES:

1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
3. MATERIAL: COPPER ALLOY 0.2MM THICK.
4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
6. AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
8. SMT PADS PLATED TIN.
9. MATING PAD PLATED GOLD OVER NICKEL.

### SUGGESTED SMT PCB LAYOUT



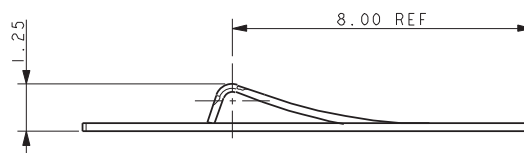
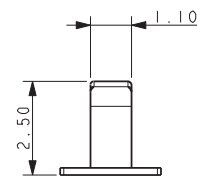
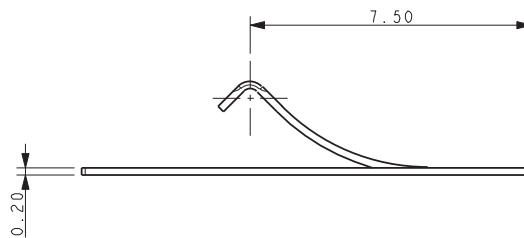
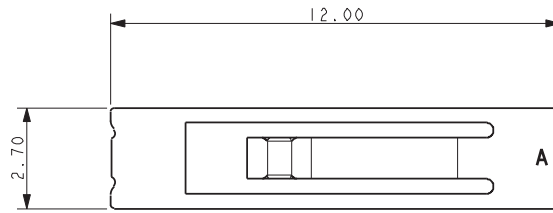
### PACKING DETAILS



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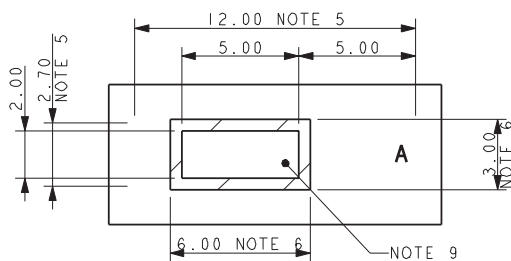
Height 1.50mm

## 70-9155-001-610-006 NOMINAL WORKING HEIGHT 1.50MM



**FULLY DEFLECTED CONTACT**

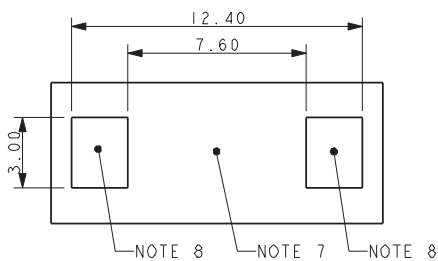
### SUGGESTED MATING PCB LAYOUT



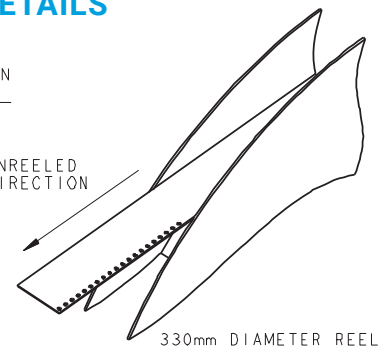
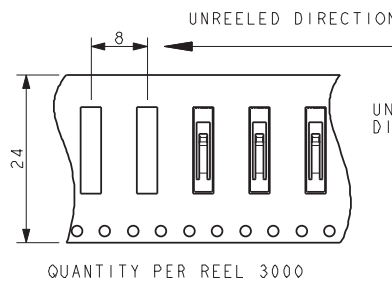
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### SUGGESTED SMT PCB LAYOUT



### PACKING DETAILS



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