

**790-036P**  
**Right Angle PCB Terminated**  
**Panel Mount Receptacle, Pin Contacts**  
**How To Order**



Series 79  
90° PCB  
Connectors

## 790-036P Right Angle PCB Panel Mount Receptacles

### PIN CONTACTS WITH RIGHT ANGLE PCB TERMINATION



Lightweight, rugged right angle headers feature gold-plated contacts for thru-hole printed circuit board termination. 790-036P connectors are designed for rear-panel mounting and are supplied with conductive panel gaskets. Contacts are permanently installed and are sealed with epoxy. Shells are aluminum alloy. Threaded board mounting holes and integral standoffs simplify installation. EMI shroud improves EMI performance. Fluorosilicone face seal provides watertight interface. Available in 29 different contact arrangements, these connectors feature size #23 signal contacts along with #16 and #12 power contacts for up to 23 amps current rating.

#### HOW TO ORDER

##### Sample Part Number

| 790-036P                                                                                                                          | D-7P2                                         | MT                                                                                                                                                                                                                                                                                                                                                                | P                                                                                                                                  | A                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Part Number                                                                                                                       | Shell Size - Insert Arrangements              | Shell Finish                                                                                                                                                                                                                                                                                                                                                      | Hardware Option                                                                                                                    | PC Tail Length                                                                           |
| <b>790-036P</b><br>Rear-Panel Mounted Receptacle with 90° PC Tail Pin Contacts for Termination to Backplanes or Flexible Circuits | See Table 1 for Available Insert Arrangements | <b>M</b><br>Electroless Nickel<br><i>general purpose applications</i><br><b>MT</b><br>Nickel-PTFE<br>1000 Hour Grey™<br><i>maximum corrosion protection and durability (non-reflective grey)</i><br><b>ZNU</b><br>Zinc-Nickel with Black Chromate<br><i>tactical applications (non-reflective black)</i><br><br>Additional shell finishes are listed on page C-9. | <br><b>N</b><br>No Hardware<br><br><b>G</b><br>Guide Pin<br><br><b>P</b><br>Female Jackpost<br><br><b>S</b><br>Female Guide Socket | <b>A</b><br>.125 Inch (3.2 mm.)<br><b>B</b><br>.250 inch (6.4 mm.)<br><br>PC TAIL LENGTH |

#### SPECIFICATIONS

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Current Rating                  | #23 5 AMPS, #16 13 A., #12 23 A.          |
| Dielectric Withstanding Voltage | #23 500 VAC RMS, #12 and #16 1800 VAC RMS |
| Insulation Resistance           | 5000 megohms minimum                      |
| Operating Temperature           | -65° C. to +150° C.                       |
| Shock                           | 300 g.                                    |
| Vibration                       | 37 g.                                     |

#### MATERIALS AND FINISHES

|                  |                                          |
|------------------|------------------------------------------|
| Shell            | Aluminum alloy                           |
| Contacts         | Copper alloy, 50 microinches gold plated |
| Insulator        | Liquid crystal polymer (LCP)             |
| Interfacial Seal | Fluorosilicone rubber                    |
| Hardware         | 300 series stainless steel               |
| Panel Gasket     | Fluorosilicone, conductive               |
| Encapsulant      | Epoxy                                    |

Dimensions in Inches (millimeters) are subject to change without notice.

# 790-036P

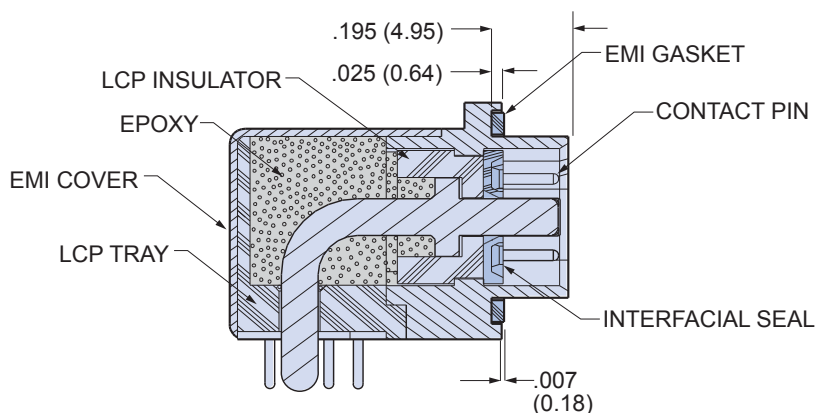
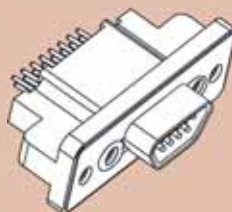
## Right Angle PCB Terminated Panel Mount Receptacle, Pin Contacts

### How To Order

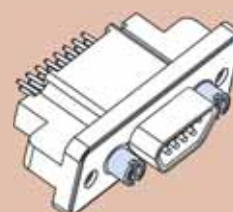
Table I Contact Arrangements

| Layout | Contact Quantity |     |     | Face View |
|--------|------------------|-----|-----|-----------|
|        | #23              | #16 | #12 |           |
| A-5    | 5                |     |     |           |
| B-2P2  |                  | 2   |     |           |
| B-9    | 9                |     |     |           |
| C-13   | 13               |     |     |           |
| D-15   | 15               |     |     |           |
| D-3P3  |                  | 3   |     |           |
| D-7P2  | 5                | 2   |     |           |
| E-11P2 | 9                | 2   |     |           |
| E-19   | 19               |     |     |           |
| E-7P3  | 4                | 3   |     |           |
| F-15P2 | 13               | 2   |     |           |
| F-23   | 23               |     |     |           |
| F-5P5  |                  | 5   |     |           |
| G-33   | 33               |     |     |           |
| H-10P4 | 6                |     | 4   |           |
| H-29P7 | 22               | 7   |     |           |
| H-36P2 | 34               |     | 2   |           |
| H-54P2 | 52               | 2   |     |           |
| H-5P5  |                  |     | 5   |           |
| H-66   | 66               |     |     |           |
| J-17P4 | 13               | 4   |     |           |
| J-25P2 | 23               | 2   |     |           |
| J-33   | 33               |     |     |           |
| J-7P7  |                  | 7   |     |           |
| K-27P4 | 23               | 4   |     |           |
| K-35P2 | 33               | 2   |     |           |
| K-43   | 43               |     |     |           |
| K-9P9  |                  | 9   |     |           |
| L-6P6  |                  |     | 6   |           |
| L-78   | 78               |     |     |           |
| M-102  | 102              |     |     |           |

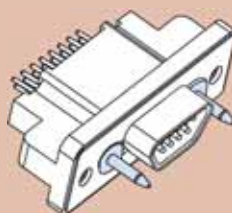
CROSS-SECTIONAL VIEW OF 790-036P

TABLE 2  
HARDWARE OPTION**N****No Mating Hardware**

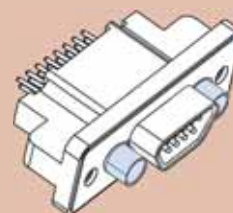
Connector is supplied with blind, tapped holes. Shell sizes H and L have 6-32 UNC-2B thread, other sizes are #4-40. Minimum thread depth is .150" (3.81).

**P****Jackposts**

Connector is supplied with non-removable jackposts. Shell sizes H and L have #4-40 UNC-2B thread, other sizes have #2-56 thread.

**G****Male Guide Pins**

Connector is supplied with stainless steel guide pins to mate with code S guide sockets. Pins are non-removable.

**S****Female Guide Sockets**

Connector is supplied with stainless steel guide sockets to mate with code G guide pins. Sockets are non-removable.

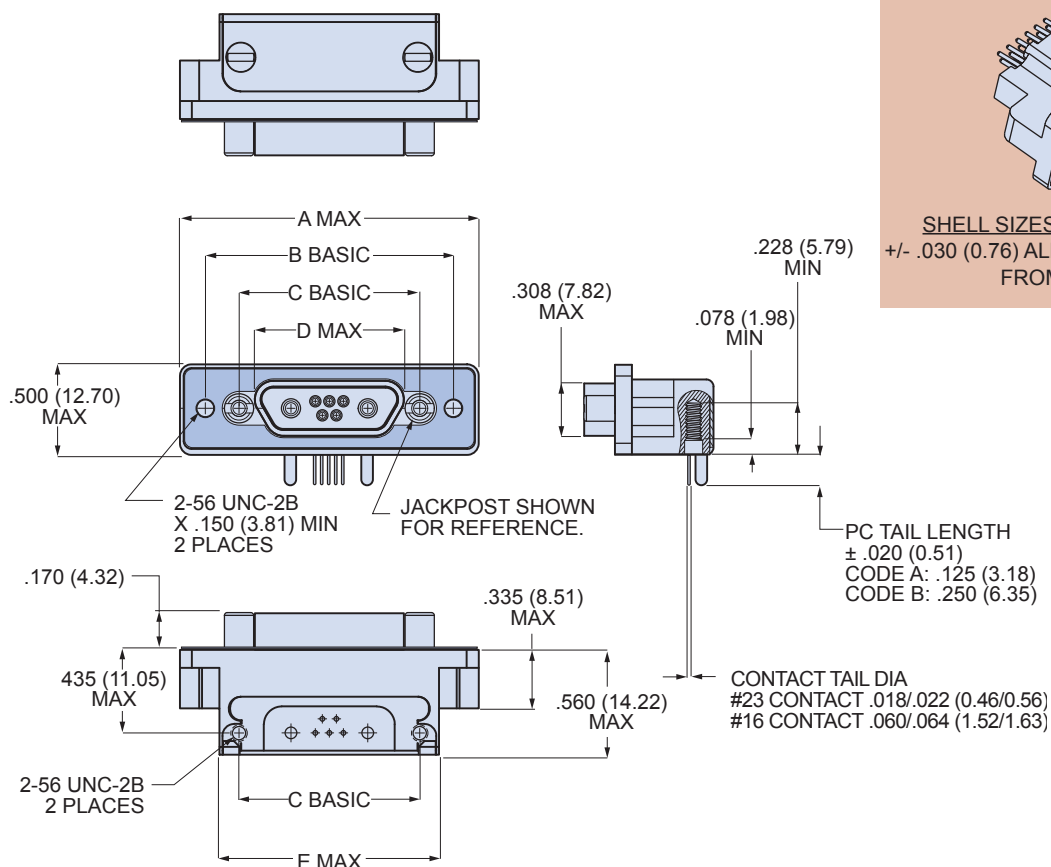
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**790-036P**  
**Right Angle PCB Terminated**  
**Panel Mount Receptacle, Pin Contacts**  
**Dimensions**

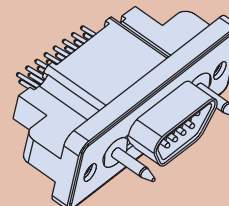


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**790-036P Shell Sizes A-F, J and K Dimensions**



**BLIND MATE**



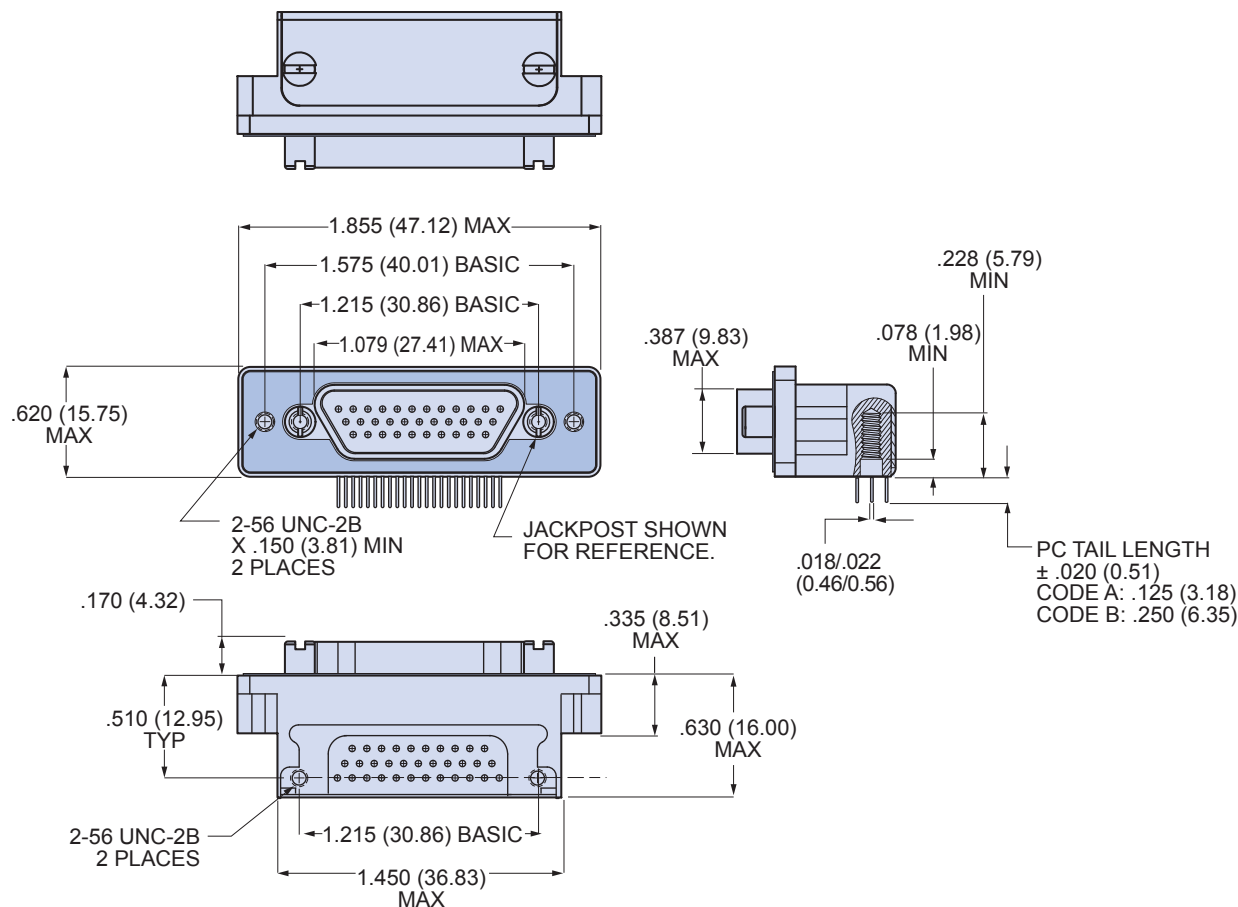
SHELL SIZES A, B, C, D, E, F, G, J, K  
+/- .030 (0.76) ALLOWABLE MISALIGNMENT  
FROM CENTERLINE

**790-036P SHELL SIZES A-F, J AND K**

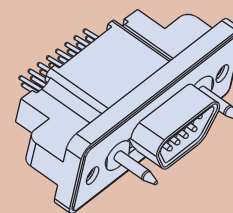
| Shell Size | A Max. |       | B Basic |       | C Basic |       | D Max. |       | E Max. |       |
|------------|--------|-------|---------|-------|---------|-------|--------|-------|--------|-------|
|            | In.    | mm.   | In.     | mm.   | In.     | mm.   | In.    | mm.   | In.    | mm.   |
| A          | 1.211  | 30.76 | .925    | 23.50 | .565    | 14.35 | .401   | 10.19 | .805   | 20.45 |
| B          | 1.361  | 34.57 | 1.075   | 27.31 | .715    | 18.16 | .551   | 14.00 | .955   | 24.26 |
| C          | 1.511  | 38.38 | 1.225   | 31.12 | .865    | 21.97 | .701   | 17.81 | 1.105  | 28.07 |
| D          | 1.611  | 40.92 | 1.325   | 33.66 | .965    | 24.51 | .801   | 20.35 | 1.205  | 30.61 |
| E          | 1.761  | 44.73 | 1.475   | 37.47 | 1.115   | 28.32 | .951   | 24.16 | 1.355  | 34.42 |
| F          | 1.911  | 48.54 | 1.625   | 41.28 | 1.265   | 32.13 | 1.101  | 27.96 | 1.505  | 38.23 |
| J          | 2.261  | 57.43 | 1.975   | 50.17 | 1.615   | 41.02 | 1.460  | 37.08 | 1.855  | 47.12 |
| K          | 2.661  | 67.59 | 2.375   | 60.33 | 2.015   | 51.18 | 1.860  | 47.24 | 2.255  | 57.28 |

Dimensions in Inches (millimeters) are subject to change without notice.

## 790-036P Shell Size G Dimensions



### BLIND MATE



SHELL SIZES A, B, C, D, E, F, G, J, K  
+/- .030 (0.76) ALLOWABLE MISALIGNMENT  
FROM CENTERLINE

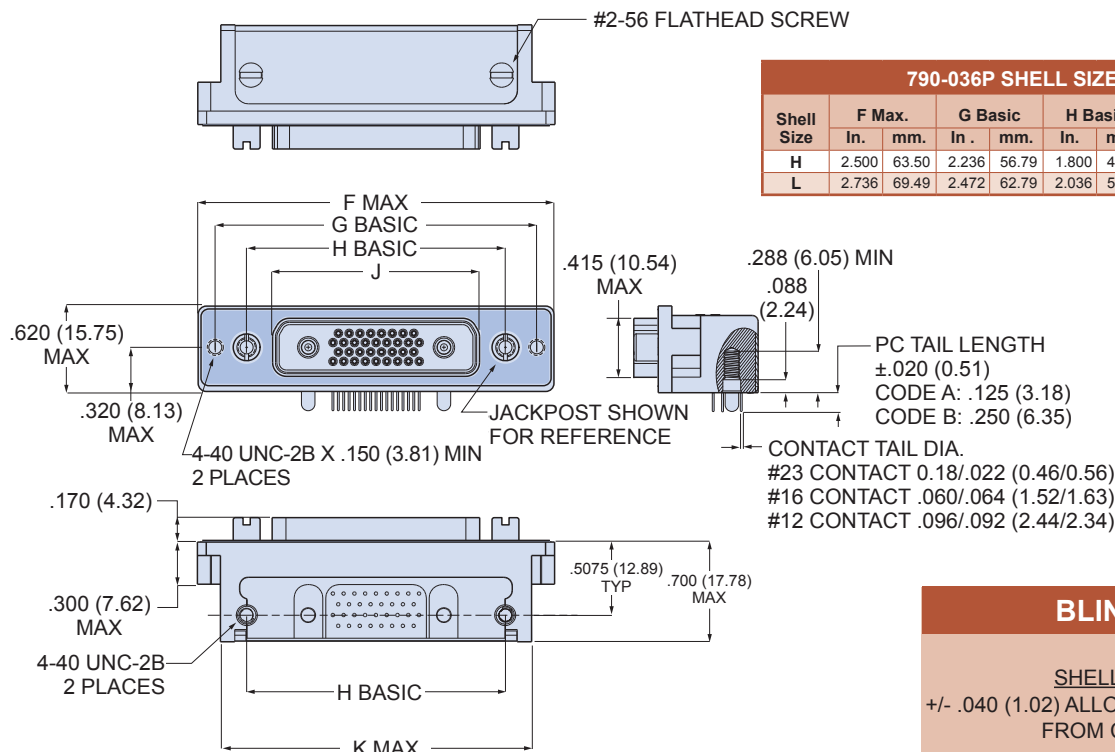
Dimensions in Inches (millimeters) are subject to change without notice.

# 790-036P Right Angle PCB Terminated Panel Mount Receptacle, Pin Contacts Dimensions



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## 790-036P Shell Sizes H and L Dimensions



## 790-036P Shell Size M Dimensions

