



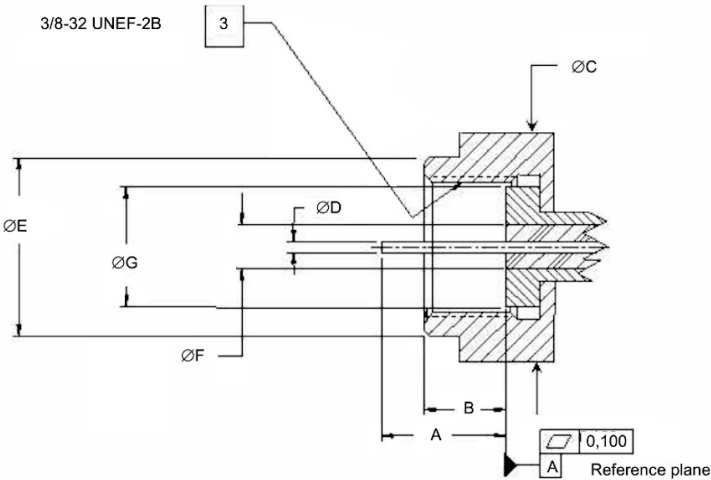
F-Type

# F-Type - Description

Aliner F-Type is a 75 ohm threaded connector series with high performance and competitive cost. The connectors are primarily applied to CATV, set top boxes, cable modems and other 75 ohm systems. Aliner F-type connectors feature up to 3GHz.

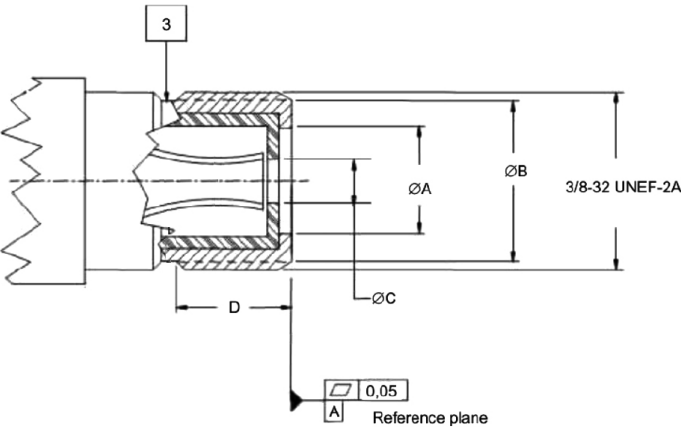
## Interface Mating Dimensions

### MALE :



| LTR. | Millimeters / Inches |       |         |       |
|------|----------------------|-------|---------|-------|
|      | MINIMUM              |       | MAXIMUM |       |
| A -  | 6.35                 | 0.250 | 8.63    | 0.340 |
| B -  | 4.00                 | 0.157 | 7.29    | 0.287 |
| C -  | -                    | -     | 16.61   | 0.654 |
| D -  | 0.64                 | 0.025 | 1.13    | 0.044 |
| E -  | 10.41                | 0.410 | 11.04   | 0.435 |
| F -  | -                    | -     | 5.84    | 0.230 |
| G -  | 7.88                 | 0.310 |         |       |

### FEMALE :



| LTR. | Millimeters / Inches |       |         |       |
|------|----------------------|-------|---------|-------|
|      | MINIMUM              |       | MAXIMUM |       |
| A -  | 3.90                 | 0.154 | 7.40    | 0.291 |
| B -  | 7.50                 | 0.295 | 8.50    | 0.335 |
| C -  | 1.20                 | 0.047 | 1.50    | 0.059 |
| D -  | 7.50                 | 0.295 | -       | -     |



## Technical Data

### Material / Finish :

|                       | Material                                                                                     | Finish                  |
|-----------------------|----------------------------------------------------------------------------------------------|-------------------------|
| Connector body        | Brass per (QQ-B-626 or JIS-C3604B) or ZINC (Zemak 5)                                         | Nickel or Tin plating   |
| Center contact female | Beryllium copper per (QQ-C-530 or JIS-C1730) or Phosphor bronze per (QQ-B-750 or JIS-C5441B) | Tin plating             |
| Insulator             | PA9T or PTFE                                                                                 | Color : Nature or Black |

### Electrical :

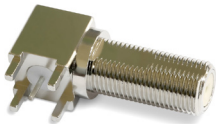
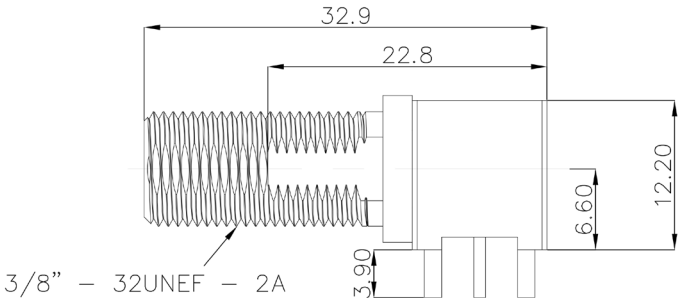
|                                 |                    |
|---------------------------------|--------------------|
| Nominal impedance               | 75 $\Omega$        |
| Frequency up to                 | 3.0 GHz            |
| VSWR                            | 1.50 max.          |
| Working voltage                 | 250 Volts rms max. |
| Dielectric withstanding voltage | 500 Volts rms min. |

### Mechanical & Environmental :

|                      |                             |
|----------------------|-----------------------------|
| Mating               | 3/8"-32UNEF thread coupling |
| Durability           | $\geq 500$ cycles           |
| Temperature range    | -40 °C to +90°C             |
| Pull the Force Gauge | 30 lbs MIN                  |

Right Angle Jack (female)

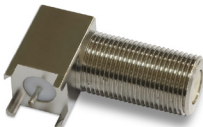
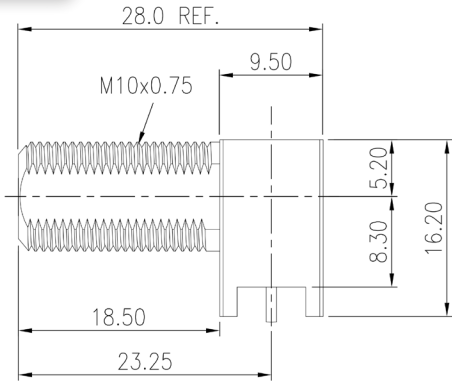
PCB MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-209AL-T | 75        | Nickel  | Tray      | B085             | Standard |

Right Angle Jack (female)

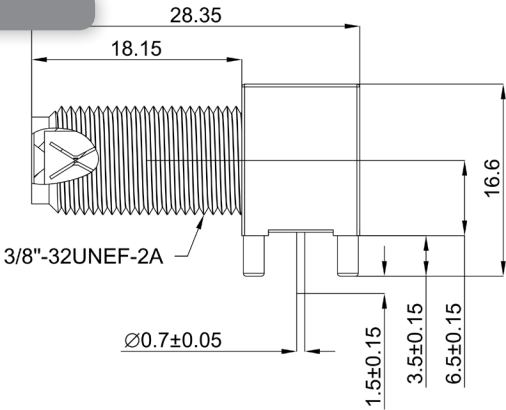
PCB MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
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Right Angle Jack (female)

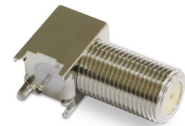
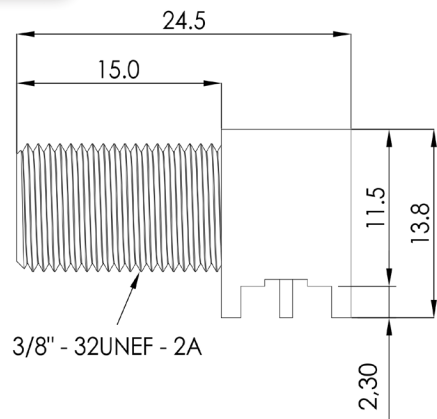
PCB MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-209CC-T | 75        | Nickel  | Tray      | B086             | Standard |

Right Angle Jack (female)

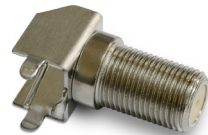
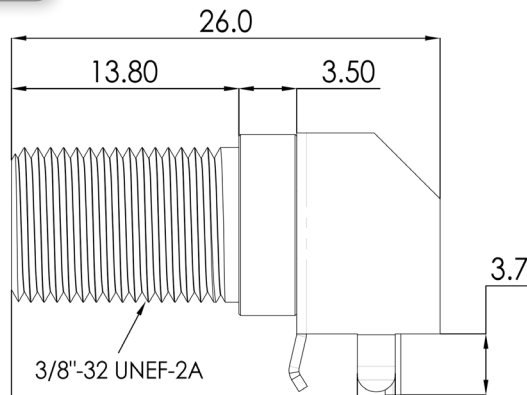
PCB MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-209CE-T | 75        | Nickel  | Tray      | B087             | Standard |

Right Angle Jack (female)

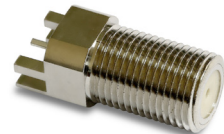
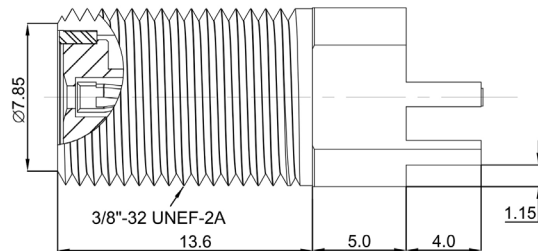
PCB MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-501EB-T | 75        | Nickel  | Tray      | B088             | Standard |

Straight Jack (female)

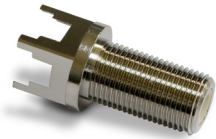
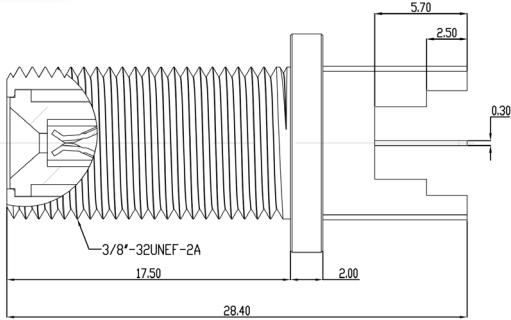
PCB EDGE MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-502AA-T | 75        | Nickel  | Tray      | B089             | Standard |

Straight Jack (female)

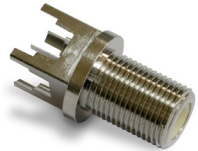
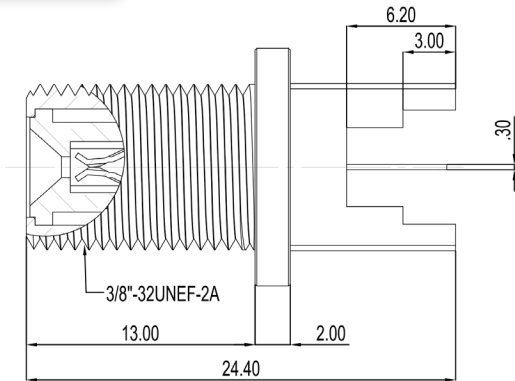
PCB MOUNT



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-504BA-T | 75        | Nickel  | Tray      | B090             | Standard |

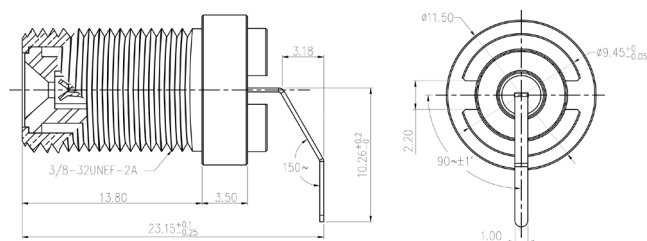
Straight Jack (female)

PCB MOUNT



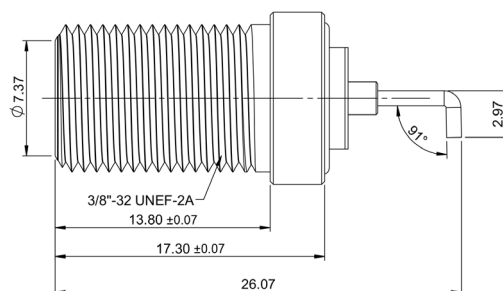
| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-504CA-T | 75        | Nickel  | Tray      | B090             | Standard |

## Straight Jack (female)



| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-003DH-T | 75        | Nickel  | Tray      | B092             | Standard |

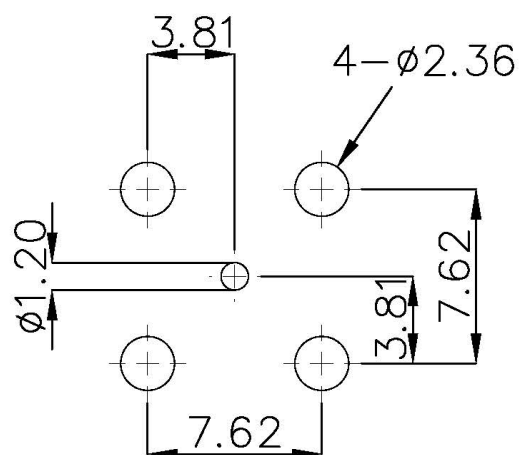
## Straight Jack (female)



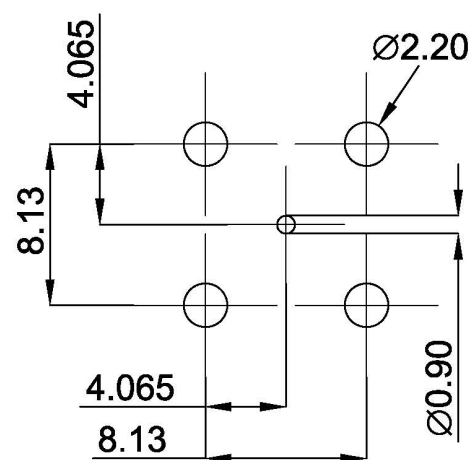
| Aliner P/N | Impedance | Plating | Packaging | Mounting Pattern | Note     |
|------------|-----------|---------|-----------|------------------|----------|
| 15-003EJ-T | 75        | Nickel  | Tray      | B093             | Standard |



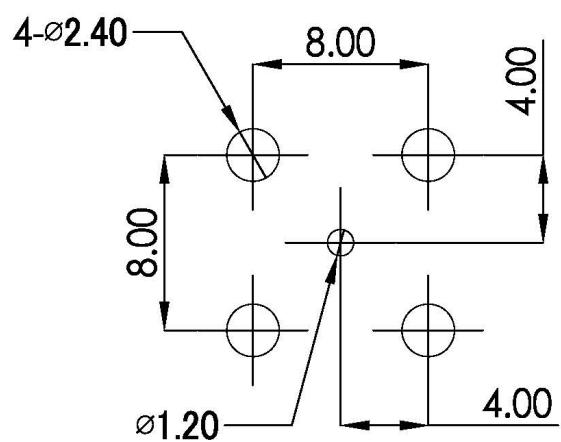
B085



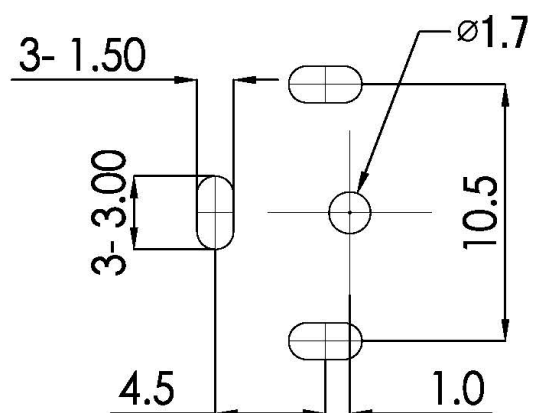
B086



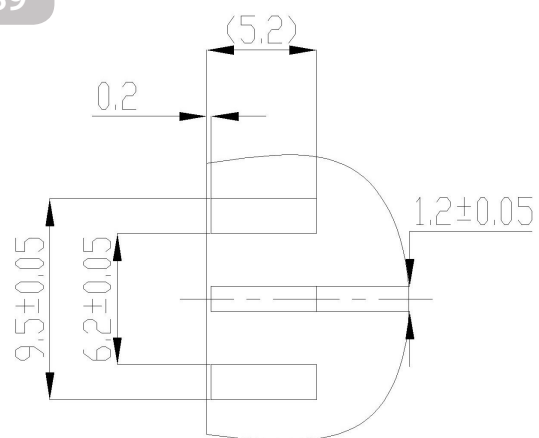
B087



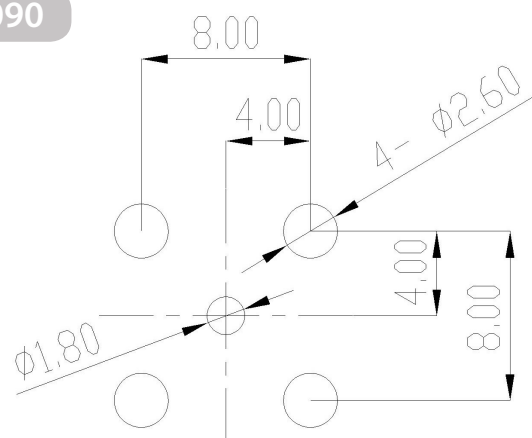
B088



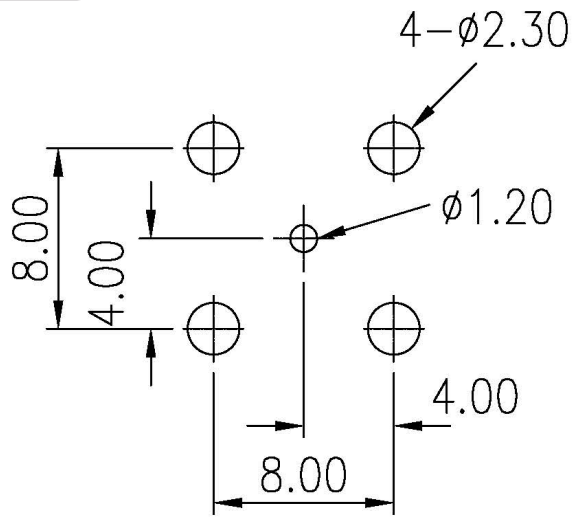
B089



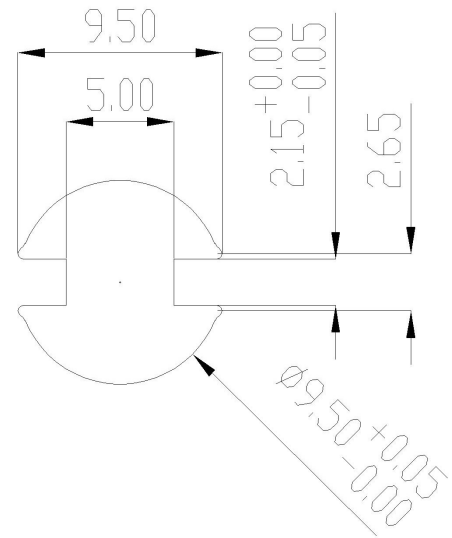
B090



B091



B092



B093

