

| Specifications         |                                  |
|------------------------|----------------------------------|
| Current Rating         | 5 A / 25°C, 3.5 A / 70°C ambient |
| Temperature Rating     | –55°C to 125°C                   |
| Contact Resistance     | 10 mΩ                            |
| Test Voltage           | 1200 Vrms at Sea Level           |
| Ø Plated Through Hole  | 1,09 - 0,94 (.043 - .037)        |
| PC Tail Press-in Force | 100N/contact max.                |
| PC Tail Push-out Force | 30N/contact min.                 |
| PC Board Thickness     | 3,20 - 1,60 (.125 - .062)        |

| Materials and Finishes |                         |                                                      |
|------------------------|-------------------------|------------------------------------------------------|
| Description            | Material                | Finish                                               |
| Shell                  | Steel                   | Tin                                                  |
| Insulator              | Thermoplastic, UL 94V-0 | None (color: black)                                  |
| Contact                | Copper Alloy            | Gold over Nickel (Standard) or Gold over PdNi (-408) |
| Hardware               | Steel/Copper Alloy      | Tin/Zinc                                             |

| Specifications                  |                                        |
|---------------------------------|----------------------------------------|
| Temperature Rating              | –55°C to 125°C                         |
| Current Rating                  | 7.5 A                                  |
| Contact Resistance              | 55 millivolt max at 7.5 A test current |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level                  |

| Materials and Finishes |                         |                                                     |
|------------------------|-------------------------|-----------------------------------------------------|
| Description            | Material                | Finish                                              |
| Shell                  | Steel                   | Tin                                                 |
| Insulator              | Thermoplastic, UL 94V-0 | None (color: dark green)                            |
| Contact                | Copper Alloy            | Gold over Nickel. Terminating end Tin (Socket only) |
| Hardware               | Steel/Copper Alloy      | Tin/Zinc                                            |

| Specifications                  |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 105°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 15 mΩ                 |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level |

| Materials and Finishes |                        |                     |
|------------------------|------------------------|---------------------|
| Description            | Material               | Finish              |
| Shell                  | Steel                  | Tin                 |
| Insulator              | Thermoplastic, UL 94-0 | None (color: black) |
| Contacts               | Copper Alloy           | Gold over Nickel    |
| Hardware               | Steel/Copper Alloy     | Tin/Zinc            |

| Specifications                  |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 125°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 10 mΩ                 |
| Dielectric Withstanding Voltage | 1250 VAC at Sea Level |

| Materials and Finishes |                         |                                                 |
|------------------------|-------------------------|-------------------------------------------------|
| Description            | Material                | Finish                                          |
| Shell                  | Steel                   | Tin                                             |
| Insulator              | Thermoplastic, UL 94V-0 | None (color: dark green)                        |
| Contacts               | Copper Alloy            | Gold over Nickel in mating area, Tin on balance |
| Hardware               | Steel/Copper Alloy      | Tin/Zinc                                        |

| Specifications                  |                       |
|---------------------------------|-----------------------|
| Temperature Rating              | –55°C to 125°C        |
| Current Rating                  | 5 A                   |
| Contact Resistance              | 10 mΩ                 |
| Dielectric Withstanding Voltage | 1250 VAC at Sea Level |

| Materials and Finishes |                         |                                                |
|------------------------|-------------------------|------------------------------------------------|
| Description            | Material                | Finish                                         |
| Shell                  | Steel                   | Tin                                            |
| Insulator              | Thermoplastic, UL 94V-0 | None (color: dark green)                       |
| Contact                | Socket: Copper Alloy    | Gold over Nickel. Terminating end Tin (Socket) |
| Hardware               | Steel/Copper Alloy      | Tin/Zinc                                       |

Straight Solder Termination (Stamped)

Plug



Part Numbers

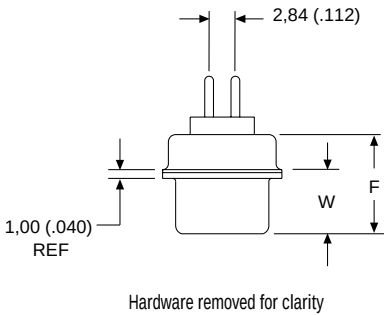
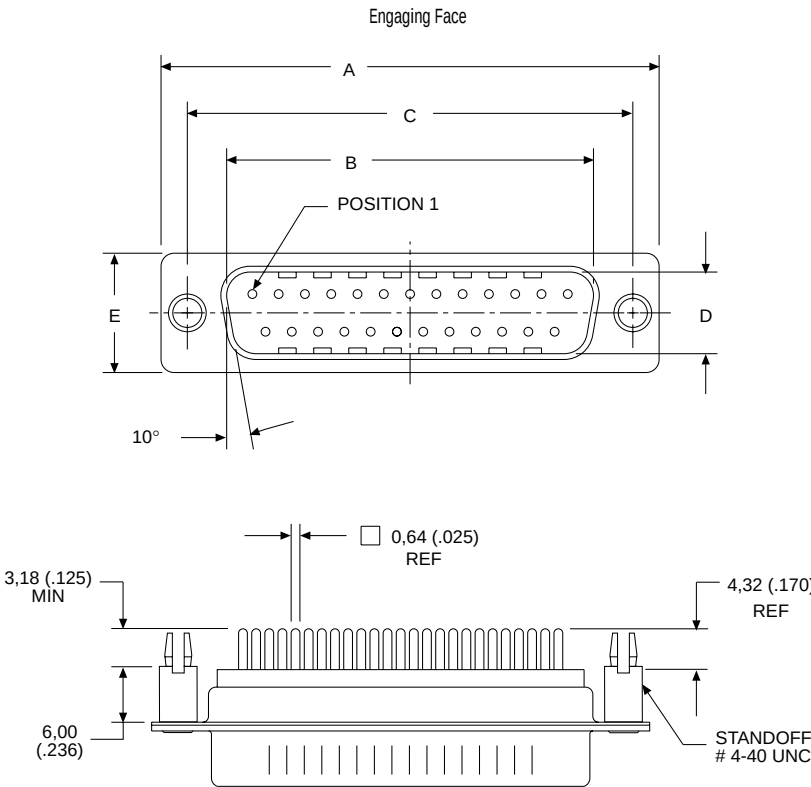
| Shell Size | Layout | Through Hole | Standoff With Boardlock |
|------------|--------|--------------|-------------------------|
| DE         | 9      | ZDE9P-OL2    | ZDEE9P-OL2-146          |
| DA         | 15     | ZDA15P-OL2   | ZDAE15P-OL2-146         |
| DB         | 25     | ZDB25P-OL2   | ZDBE25P-OL2-146         |
| DC         | 37     | ZDC37P-OL2   | ZDCE37P-OL2-146         |
| DD         | 50     | ZDD50P-OL2   | ZDDE50P-OL2-146         |

Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 2-3.

Reader's Resource

For contact cavity arrangements, see page 224.  
For P.C. hole patterns, see page 274.  
For panel cutouts, see page 221.  
For hardware views (Standard), see page 226.



Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,368 (.0145) | W<br>±0,41 (.016) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,92 (.666)      | 24,99 (.984)      | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 |
| DA         | 39,14 (1.541)     | 25,25 (.994)      | 33,32 (1.312)     | 8,36 (.329)       | 12,55 (.494)      | 10,72 (.422)      | 6,693 (.2635)       | —                 |
| DB         | 53,04 (2.088)     | 38,96 (1.534)     | 47,04 (1.852)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       |
| DC         | 69,32 (2.729)     | 55,42 (2.182)     | 63,50 (2.500)     | 8,36 (.329)       | 12,55 (.494)      | 10,82 (.426)      | —                   | 6,84 (.269)       |
| DD         | 66,93 (2.635)     | 52,81 (2.079)     | 61,11 (2.406)     | 11,07 (.436)      | 15,37 (.605)      | 10,82 (.426)      | —                   | 6,84 (.269)       |

Straight Solder Termination (Stamped)

Receptacle



Part Numbers

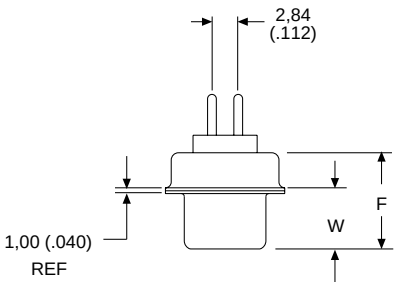
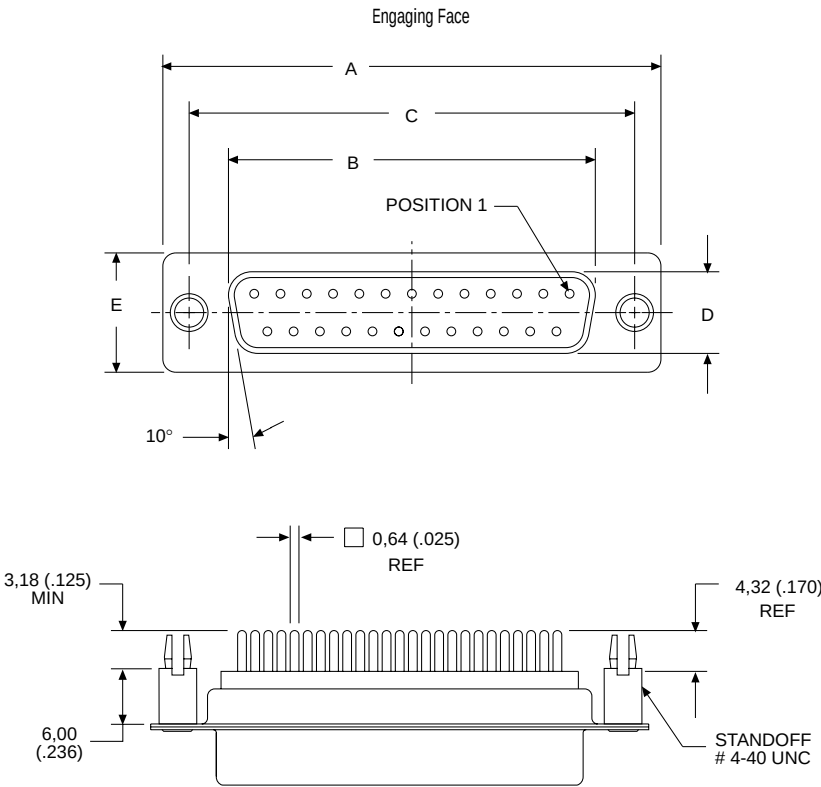
| Shell Size | Layout | Through Hole | Standoff With Boardlock |
|------------|--------|--------------|-------------------------|
| DE         | 9      | ZDE9S-OL2    | ZDEE9S-OL2-146          |
| DA         | 15     | ZDA15S-OL2   | ZDAE15S-OL2-146         |
| DB         | 25     | ZDB25S-OL2   | ZDBE25S-OL2-146         |
| DC         | 37     | ZDC37S-OL2   | ZDCE37S-OL2-146         |
| DD         | 50     | ZDD50S-OL2   | ZDDE50S-OL2-146         |

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Hardware removed for clarity

Dimensions

| Shell Size | A<br>±0,38 (.015) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,38 (.015) | F<br>±0,25 (.010) | W<br>±0,38 (.015) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 30,81 (1.213)     | 16,33 (.643)      | 24,99 (.984)      | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DA         | 39,14 (1.541)     | 24,66 (.971)      | 33,32 (1.312)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DB         | 53,04 (2.088)     | 38,38 (1.511)     | 47,04 (1.852)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DC         | 69,32 (2.729)     | 54,84 (2.159)     | 63,50 (2.500)     | 7,90 (.311)       | 12,55 (.494)      | 10,90 (.429)      | 6,94 (.273)       |
| DD         | 66,93 (2.635)     | 52,42 (2.064)     | 61,11 (2.406)     | 10,74 (.423)      | 15,37 (.605)      | 10,90 (.429)      | 6,94 (.273)       |