

D*M — 90° Solder Termination (Machined) — Standard Footprint .318♦ or .283 inch♦♦



See pages 16-17.

D*M 90° PCB connectors, equivalent to MIL-C-24308 qualified versions (except for finishes), for use with printed circuit boards in demanding applications. Additional contact lengths, hardware and finish options available; consult factory for details.

Product Features

- 7.5 A current capacity
- Machined contacts
- Two contact finishes
- Metal bracket with threaded insert standard
- Optional screw locks and boardlocks
- UL file number E8572
- Dimensionally compatible with Combo D®

ZED* — 90° Solder Termination (Stamped) — Standard Footprint .318 inch♦



See pages 18-19.

ZED* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with Standard footprints.

Product Features

- Stamped contacts with 5 A current capacity
- Economical
- Plastic bracket with integrated boardlocks and grounding strap
- Optional screw locks

D* — 90° Solder Termination (Machined) — European Footprint 10,2♦ or 9,4 mm♦♦



See pages 20-27.

D* 90° connectors are available for high performance uses according to DIN 41652. Available with European footprint 1AON contacts, plastic and metal brackets, #4-40 or M3 threads and stamped pushfits/boardlocks. Contact finish available in 2 performance classes.

Product Features

- High performance commercial class connectors
- Two contact performance classes
- Optional metal and plastic brackets, threaded standoffs, clinch nuts, and stamped pushfits/boardlocks
- Tin plated contact PC tails (pin & socket)

ZD* — 90° Solder Termination (Stamped) — European Footprint 10,2 mm♦



See pages 28-29.

ZD* 90° connectors are available for applications where price is the primary driver. They are available with integrated plastic brackets with European footprints.

Product Features

- Stamped contacts with 5 A current capacity
- Economical
- Plastic bracket with integrated boardlocks and grounding strap
- Optional screw locks

♦ Connector footprint measured from the front shell.
 ♦♦ Connector footprint measured from the rear shell.

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) |
| Pin Contact | Copper Alloy | Gold over Nickel |
| Socket Contact | Copper Alloy | Gold over Nickel in mating area, Tin on balance |
| Hardware (except Boardlocks) | Steel | Tin |
| Boardlocks | Copper Alloy | Tin |

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 94V-0 | None |
| Contacts | Copper Alloy | Gold over Nickel in mating area, Tin on balance |

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 or Plastic | Tin or None |
| Boardlocks | Copper Alloy | Tin |

Specifications

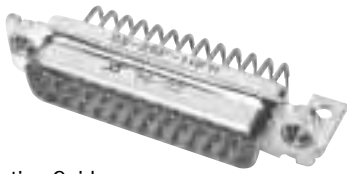
| | |
|---------------------------------|-----------------------|
| Temperature Rating | -55°C to 105°C |
| Current Rating | 5 A |
| Contact Resistance | 15 mΩ |
| Dielectric Withstanding Voltage | 1000 VAC at Sea Level |

Materials and Finishes

| Description | Material | Finish |
|-------------|-------------------------|-------------------------------------------------|
| Shell | Steel | Tin |
| Insulator | Thermoplastic, UL 94V-0 | None |
| Contacts | Copper Alloy | Gold over Nickel in mating area, Tin on balance |

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Plug



Part Numbers

| Shell Size | Layout | Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC |
|------------|--------|---------------------------|-----------------------|----------------|----------------|
| DE | 9 | DE9P-1AFN-K87 | DE9P-1A7N-K87 | DE9P-1A9N-K87 | DE9P-1A8N-K87 |
| DA | 15 | DA15P-1AFN-K87 | DA15P-1A7N-K87 | DA15P-1A9N-K87 | DA15P-1A8N-K87 |
| DB | 25 | DB25P-1AFN-K87 | DB25P-1A7N-K87 | DB25P-1A9N-K87 | DB25P-1A8N-K87 |
| DC | 37 | DC37P-1AFN-K87 | DC37P-1A7N-K87 | DC37P-1A9N-K87 | DC37P-1A8N-K87 |
| DD | 50 | DD50P-1AFN-K87 | DD50P-1A7N-K87 | DD50P-1A9N-K87 | DD50P-1A8N-K87 |

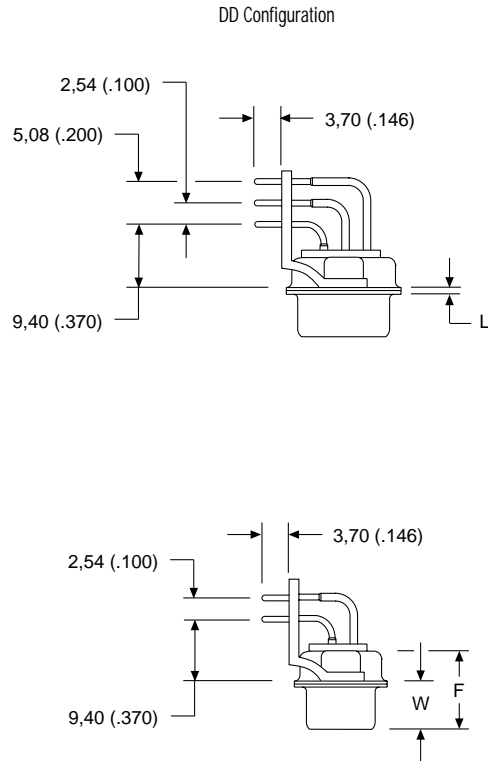
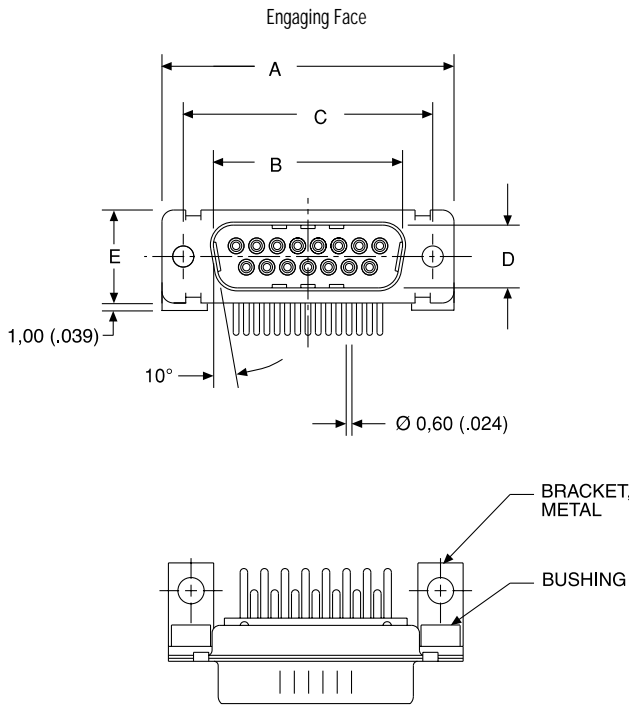
Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

Notes: For pushfit/boardlock option add -146. Example: DE9P-1AFN-K87-146
For performance class 2 add -A191. Example: DE9P-1AFN-A191-K87

Reader's Resource

For contact cavity arrangements, see page 224.
For P.C. hole patterns, see page 273.
For panel cutouts, see page 221.
For hardware views (European), see page 227.



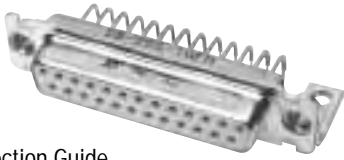
Dimensions

| Shell Size | A ±0,38 (.015) | B ±0,13 (.005) | C ±0,13 (.005) | D ±0,13 (.005) | E ±0,38 (.015) | F ±0,25 (.010) | W ±0,368 (.0145) | W ±0,41 (.016) | L ±0,25 (.010) |
|------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-------------------|-------------------|
| DE | 30,81 (1.213) | 16,92 (.666) | 24,99 (.984) | 8,36 (.329) | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635) | — | 0,76 (.030) |
| DA | 39,14 (1.541) | 25,25 (.994) | 33,32 (1.312) | 8,36 (.329) | 12,55 (.494) | 10,72 (.422) | 6,693 (.2635) | — | 0,76 (.030) |
| 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) | 0,99 (.039) |
| 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) | 0,99 (.039) |
| 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) | 0,99 (.039) |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

90° Solder Termination (Machined) with Metal Bracket — European Footprint 10,2♦ or 9,4♦♦ mm

Receptacle



Selection Guide

For Product Features, Specifications, Materials and Finishes, see pages 14-15.

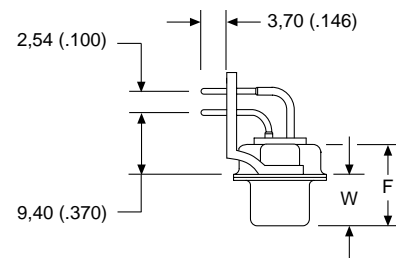
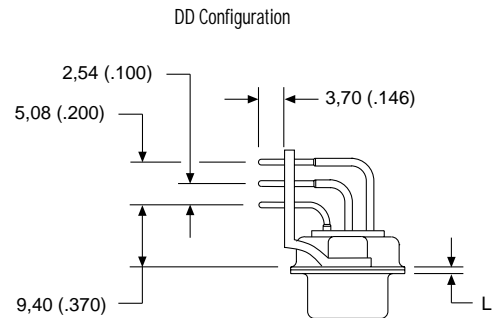
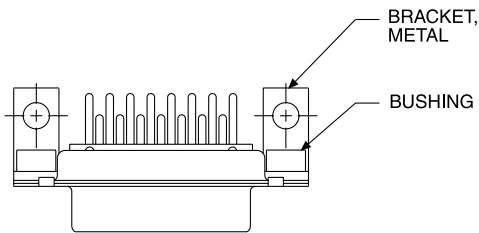
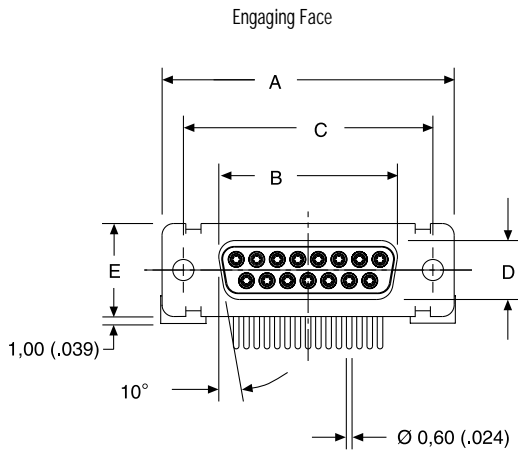
Reader's Resource

For contact cavity arrangements, see page 224.
 For P.C. hole patterns, see page 273.
 For panel cutouts, see page 221.
 For hardware views (European), see page 227.

Part Numbers

| Shell Size | Layout | Bushing with Through Hole | Captive Nut #4-40 UNC | Captive Nut M3 | Post #4-40 UNC |
|------------|--------|---------------------------|-----------------------|-----------------|-----------------|
| DE | 9 | DE9S-1AFN-A197 | DE9S-1A7N-A197 | DE9S-1A9N-A197 | DE9S-1A8N-A197 |
| DA | 15 | DA15S-1AFN-A197 | DA15S-1A7N-A197 | DA15S-1A9N-A197 | DA15S-1A8N-A197 |
| DB | 25 | DB25S-1AFN-A197 | DB25S-1A7N-A197 | DB25S-1A9N-A197 | DB25S-1A8N-A197 |
| DC | 37 | DC37S-1AFN-A197 | DC37S-1A7N-A197 | DC37S-1A9N-A197 | DC37S-1A8N-A197 |
| DD | 50 | DD50S-1AFN-A197 | DD50S-1A7N-A197 | DD50S-1A9N-A197 | DD50S-1A8N-A197 |

Notes: For pushfit/boardlock option add -146. Example: DE9S-1AFN-A197-146
 For performance class 2 add -A191. Example: DE9S-1AFN-A191-A197



Dimensions

| Shell Size | A | B | C | D | E | F | W | L |
|------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|
| | ±0,38 (.015) | ±0,13 (.005) | ±0,13 (.005) | ±0,13 (.005) | ±0,38 (.015) | ±0,25 (.010) | ±0,38 (.015) | ±0,25 (.010) |
| DE | 30,81 (1.213) | 16,33 (.643) | 24,99 (.984) | 7,90 (.311) | 12,55 (.494) | 10,90 (.429) | 6,94 (.273) | 0,76 (.030) |
| DA | 39,14 (1.541) | 24,66 (.971) | 33,32 (1.312) | 7,90 (.311) | 12,55 (.494) | 10,90 (.429) | 6,94 (.273) | 0,76 (.030) |
| 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) | 0,76 (.030) |
| 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) | 0,76 (.030) |
| 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) | 0,76 (.030) |

- ♦ Connector footprint measured from the front shell.
- ♦♦ Connector footprint measured from the rear shell.

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JONHON

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